SEZAM

ADMINISTRATION MANUAL

Manual Order Number: SEZ312-00A312E

This document is applicable to SEZAM Version 3.1.2 and to all subsequent releases, unless otherwise indicated in new editions or technical newsletters.

Specifications contained herein are subject to change and these changes will be reported in subsequent revisions or editions.

Readers' comments are welcome. Comments may be directed to:

E-mail: k.soumm@gmail.com
www.sezdata.com

© November 2011, Konstantin Soumm
All rights reserved
Use permissible by license only
Printed in the Federal Republic of Germany

The name SEZAM is either trademark or registered trademark of Konstantin Soumm and/or his licensors. Other company and product names mentioned herein may be trademarks of their respective owners.

The SEZAM documentation often refers to numerous hardware and software products by their trade names. In most, if not all cases, these designations are claimed as trademarks or registered trademarks by their respective companies.

TABLE OF CONTENTS

1. Summary 6

2. SEZAM Basic Principles 9
JCL Generation Process 9
Break Points 12
System Variables 14
Environment System Variables 14
Date and Time System Variables 15
Access Control 16

3. How to Process Administration 19
Screens 22
Entering Commands 23
Program Function Keys 24
Getting Help 24

4. User Maintenance 25
Create User 25
Browse User 28
Modify User 30
Copy User 31
Delete User 32

5. Environment Maintenance 33
Create Environment 34
Modify Environment 36
Create Record 38
Browse Record 40
Modify Record 42
Rename Record 43
Delete Record 44
Copy Environment 45
Verify Environment 46
Delete Environment 48
Rename Environment 49
Mass Update Environment 50
Job Name Rule Processing 52
Create Rule 55
Delete Rule 58

Description Processing 59
Create Description 59
Delete Description 60

6. History Maintenance 61
List Records 64
Delete Records 66
Browse Single Record 68
Delete Single Record 69
Job Processing 70

7. Parameter’s List Maintenance 71
Copy Parameter's Lists By User 73
Delete Parameter's Lists By User 74
Modify Parameter's Lists By User 75
Copy Parameter's Lists By Name 76
Delete Parameter's Lists By Name 77
Rename Parameter's Lists By Name 78

8. Saved Job Maintenance 79
Create Saved Job 81
Browse Saved Job 84
Display System Information 87
Modify Saved Job Inplace 89
Put Saved Job 91
Get Saved Job 93
Copy Saved Job 95
Rename Saved Job 96
Submit Saved Job 97
Export Saved Job 98
Delete Saved Job 100
Mass Update Saved Jobs 101

9. Translation Table Maintenance 102
Create Translation Table 104
Delete Translation Tables 105
Mass Update Translation Tables 106
Browse Translation Table 107

Modify Translation Table 108
Delete Translation Table 109
Copy Translation Table 110

10. Retrieval Functions 111
Utilities 111
Commands 113
Environments 115

11. SEZAM Utilities 117

12. SEZAM Corrections 121

13. SEZAM Options 122

APPENDIX A - Examples of Environment Definition 123
BS2000/OSD 123
z/OS 126
z/VM 128
z/VSE 132

APPENDIX B - #PROGNAME Values 133

APPENDIX C - Direct Commands 136

APPENDIX D – Example of the Job’s Name Rule User Exit 139

SEZAM ADMINISTRATION MANUAL

1. Summary

SEZAM Administration subsystem allows to perform the functions which are necessary for SEZAM maintenance. These functions make it possible to create and modify the users, to produce environment definitions, to support history records, to view threshold settings etc.

All SEZAM Administration functions are allowed only on the level of ADMINISTRATOR user. For information about SEZAM user types, consult the *SEZAM User's Manual.*

SEZAM Administration components are shown in Figure 1-1.

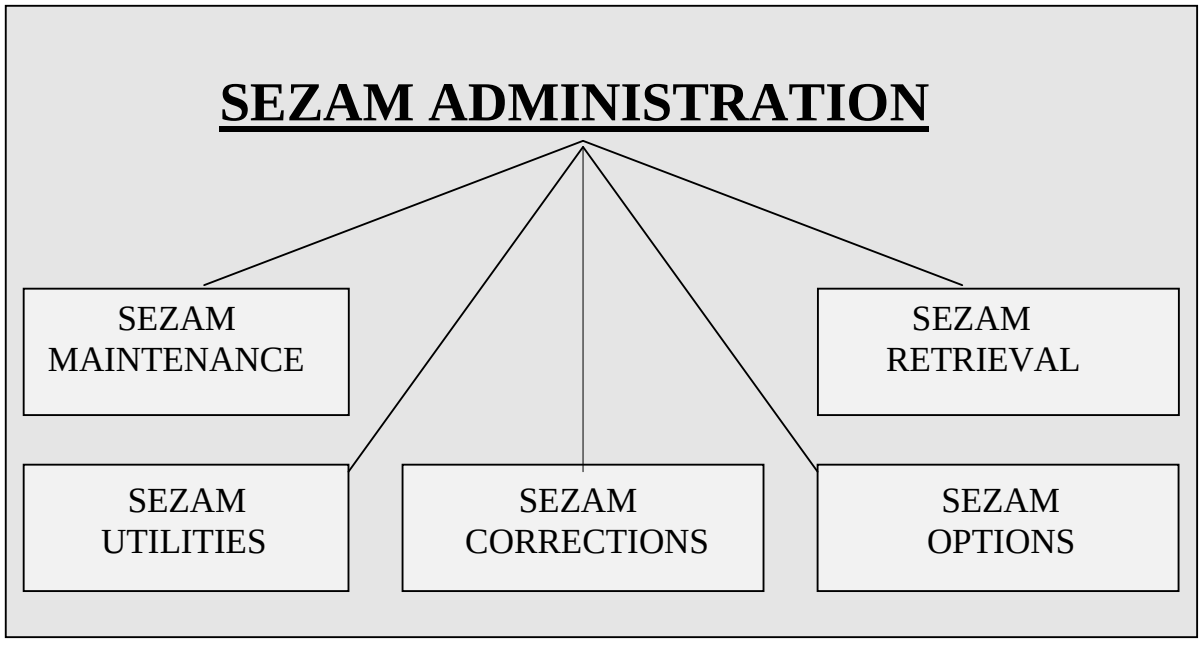


Figure 1-1: SEZAM Administration Components

Briefly, the components are:

* **SEZAM MAINTENANCE**: Performs SEZAM maintenance functions, i.e. user creation, environment definitions, saved jobs support etc. The overview of the SEZAM maintenance functions is shown in Figure 1-2.

* **SEZAM RETRIEVAL**: Performs SEZAM retrieval functions, i.e. browse through threshold setting, view of cross reference user information (Fig. 1-3).

* **SEZAM UTILITIES**: Performs SEZAM batch utilities (Fig. 1-4).
  For more information consult the *SEZAM Utilities Manual.*

* **SEZAM CORRECTIONS**: Provides an overview of the applied SEZAM corrections
  For more information consult the *SEZAM Installation Manual.*

* **SEZAM OPTIONS**: Provides an overview of the SEZAM settings. For more information consult the *SEZAM Installation Manual.*

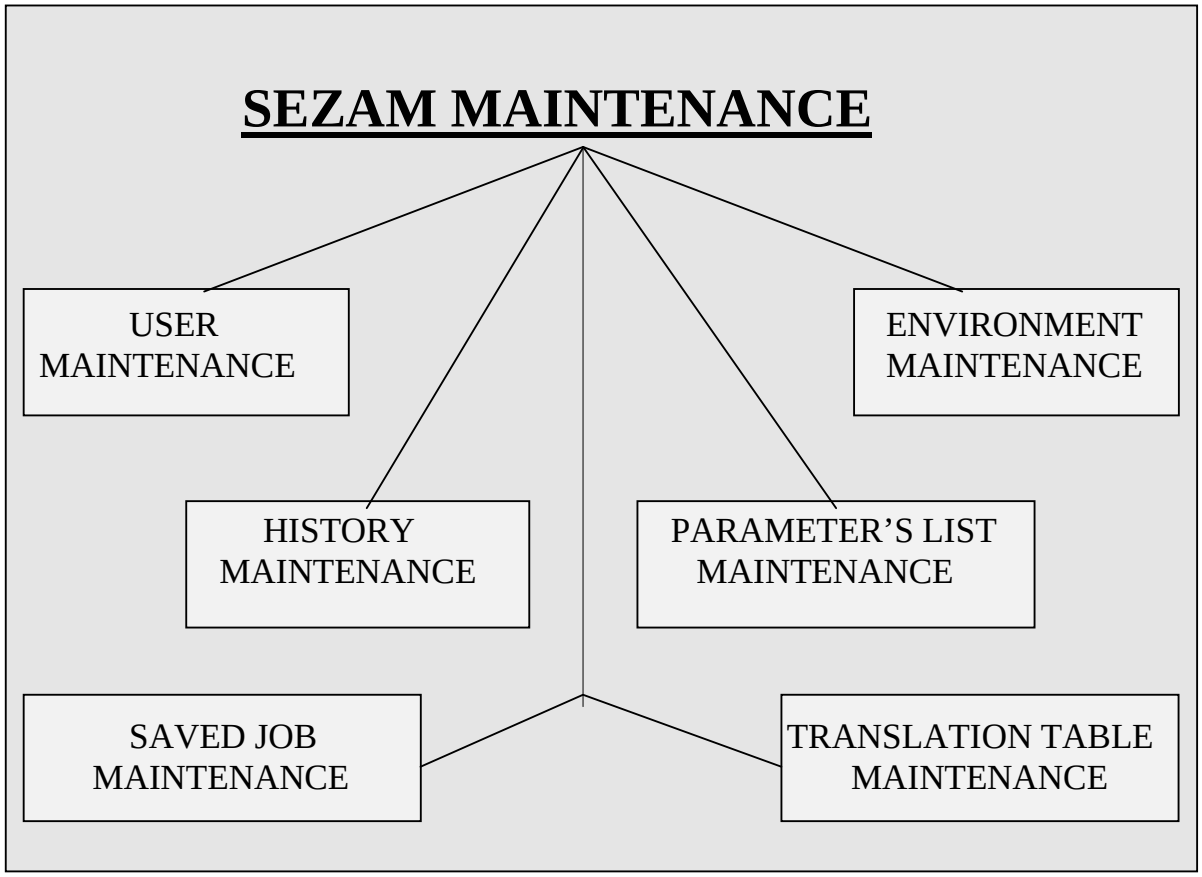


Figure 1-2: Overview of SEZAM Maintenance functions

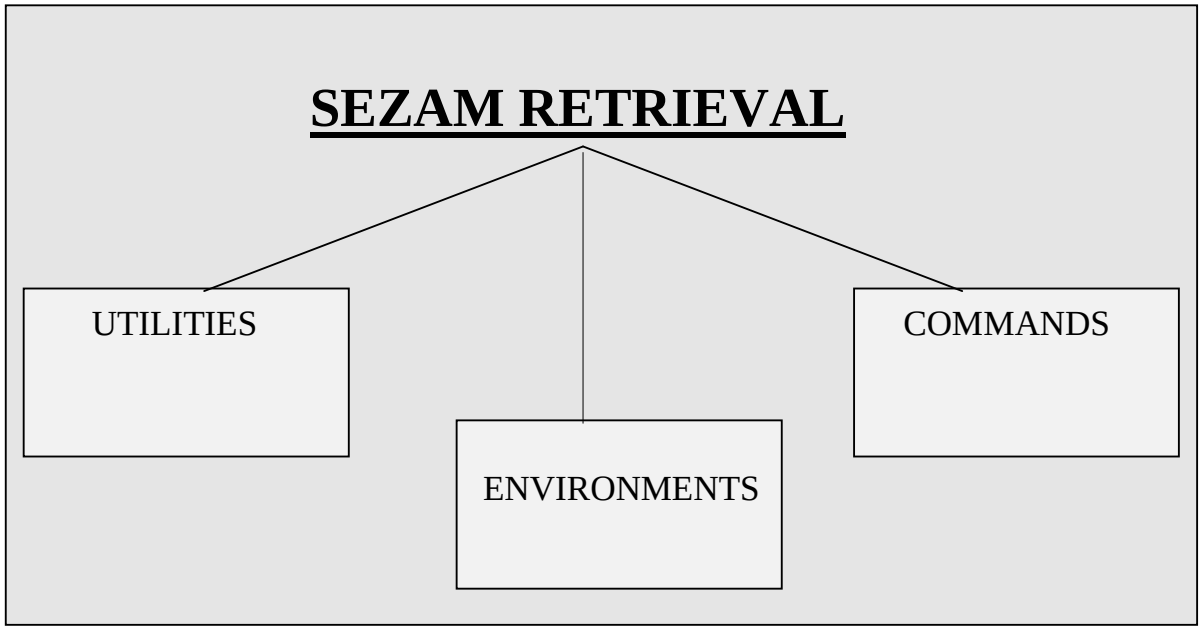


Figure 1-3: Overview of SEZAM Retrieval functions

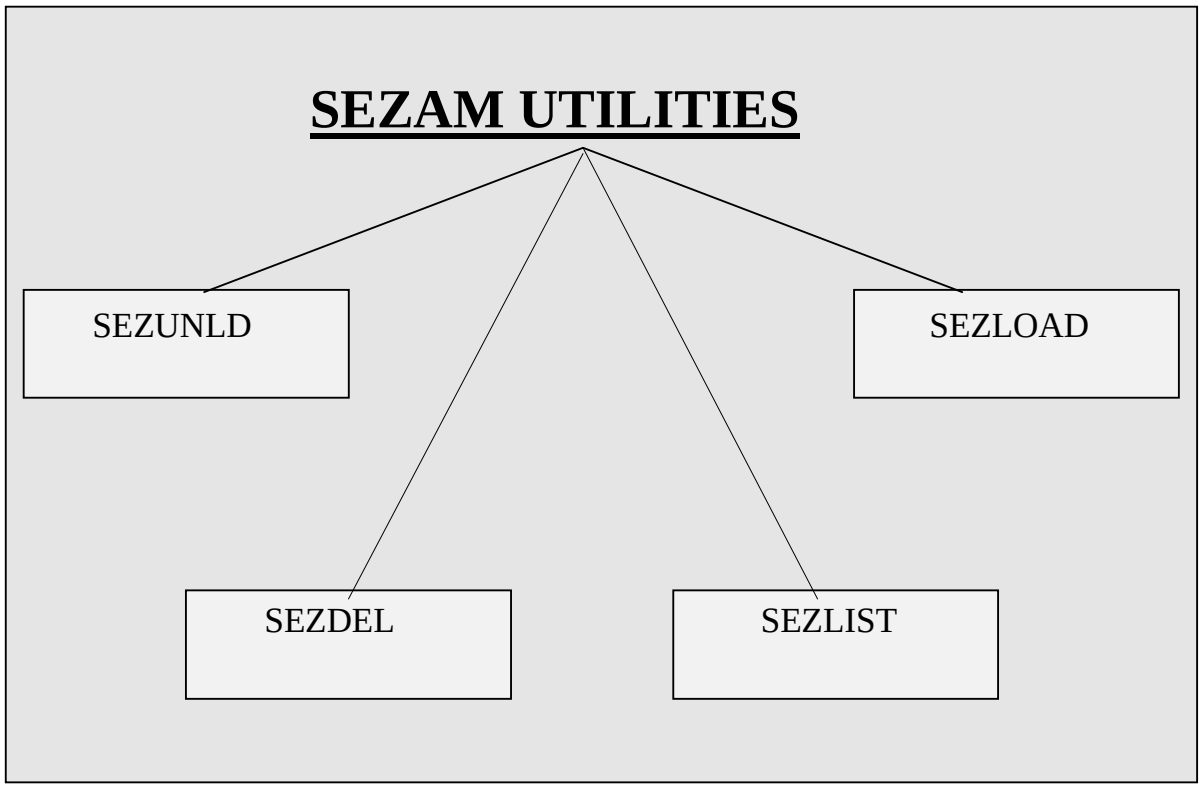


Figure 1-4: Overview of SEZAM Utilities

2. SEZAM Basic Principles

JCL Generation Process

The main goal of SEZAM is to ensure the possibility of the job's dynamically generation and execution for the ADABAS utilities, NATURAL utilities, NATURAL system commands and NATURAL user programs. Jobs can be generated in the different format depending on the operating system (z/OS, z/VSE, z/VM, BS2000/OSD). To provide this feature SEZAM must be able to recognise the type of the operating system, or to generate the job stream based on the user pre-defined job's description.

SEZAM provides the second way. To ensure the correct processing, SEZAM ADMINISTRATOR has to describe the job generation stream. It must be done in the correct syntax terms of the correspondent operating system. This description is kept in the SEZAM e*nvironment*.

An environment contains *records* which are organised in two *sections*: General Record Section (GRS) and Sample Record Section (SRS). The structure of the SEZAM environment is shown in Figure 2-1.

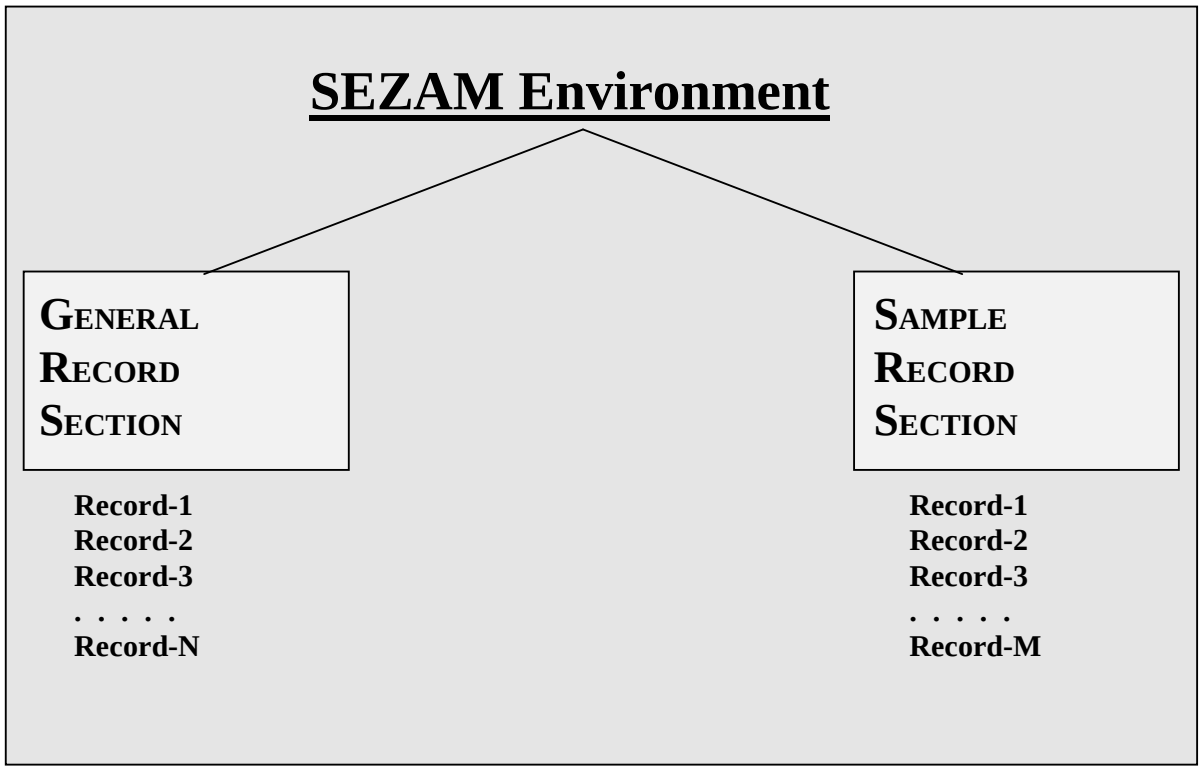


Figure 2-1: SEZAM Environment Structure

The difference between the General (GRS) and the Sample Record Section (SRS) is the following:

Each GRS record can have up to two priority entries:
  PA - priority in the ADABAS utilities job stream.
  PN - priority in the NATURAL utilities, NATURAL system commands and NATURAL user programs job stream.

The records from GRS participate in the generation process in the sequence of their priority values (PA, or PN). The SRS records don't take a part in the job generation.

The SRS records are optional. There are no influence of SRS records on the job generation process. The SRS records ensure the usage of the pre-defined default datasets allocations by the JCL / REXX generation and execution.

SEZAM provides separate control of the job generation stream for the ADABAS utilities and for all the other functions (i.e. NATURAL utilities, NATURAL system commands etc.). It is achieved by the separating of the priorities for the ADABAS job stream (PA) from the priorities for the NATURAL (PN).

Each JCL / REXX (Fig. 2-2) consists of two parts:

Independent part which is the same in all jobs.

Dependent part which is utility specific.

```
//KSMFASAV JOB (,,,999),'KSM',CLASS=W,MSGCLASS=X
//* SEZ312:F177-ADASAV(Save files)-FILE(18)
//* SEZENV=F177
/*ROUTE XEQ DAEF
/*JOBPARM SYSAFF=DAEF
/*ROUTE PRINT DAEF
//STEP01 EXEC PGM=ADARUN,REGION=8000K,TIME=1440
//STEPLIB  DD DSN=RZDBA.DB177.NEWLOAD,DISP=SHR
//         DD DSN=RZDBA.DB177.LOAD,DISP=SHR
//DDASSOR1 DD DSN=DB177.SYSF.ASSOR1,DISP=SHR
//DDDATAR1 DD DSN=DB177.SYSF.DATAR1,DISP=SHR
//DDWORKR1 DD DSN=DB177.SYSF.WORKR1,DISP=SHR
//DDSAVE1  DD DSN=ADASAV.DAEF.DB177.F018,DISP=(,KEEP),
//   UNIT=3480,LABEL=(1,SL,EXPDT=98000),
//   VOL=(,RETAIN,,,SER=(KSM001)),TRTCH=COMP
//DDDRUCK  DD SYSOUT=*
//DDPRINT  DD SYSOUT=*
//DDCARD   DD *
ADARUN PROG=ADASAV
ADARUN SVC=249
ADARUN DEVICE=3390
ADARUN MODE=MULTI
ADARUN DBID=177
//DDKARTE  DD *
ADASAV SAVE FILES=18
ADASAV UTYPE=EXU
ADASAV NOUSERABEND
//* END GENERATION
```

Figure 2-2: Example of JCL

For the shown above example the independent and dependent parts are represented in Figures 2-3, 2-4.

```
//KSMFASAV JOB (,,,999),'KSM',CLASS=W,MSGCLASS=X
//* SEZ312:F177-ADASAV(Save files)-FILE(18)
//* SEZENV=F177
/*ROUTE XEQ DAEF
/*JOBPARM SYSAFF=DAEF
/*ROUTE PRINT DAEF
//STEP01 EXEC PGM=ADARUN,REGION=8000K,TIME=1440
//STEPLIB  DD DSN=RZDBA.DB177.NEWLOAD,DISP=SHR
//         DD DSN=RZDBA.DB177.LOAD,DISP=SHR
//DDASSOR1 DD DSN=DB177.SYSF.ASSOR1,DISP=SHR
//DDDATAR1 DD DSN=DB177.SYSF.DATAR1,DISP=SHR
//DDWORKR1 DD DSN=DB177.SYSF.WORKR1,DISP=SHR
    ↕  D E P E N D E N T  P A R T
//DDDRUCK  DD SYSOUT=*
//DDPRINT  DD SYSOUT=*
//DDCARD   DD *
ADARUN PROG=ADASAV
ADARUN SVC=249
ADARUN DEVICE=3390
ADARUN MODE=MULTI
ADARUN DBID=177
//DDKARTE  DD *
    ↕  D E P E N D E N T  P A R T

//* END GENERATION
```

Figure 2-3: Independent JCL part

```
    ↕  I N D E P E N D E N T  P A R T

//DDSAVE1  DD DSN=ADASAV.DAEF.DB177.F018,DISP=(,KEEP),
//   UNIT=3480,LABEL=(1,SL,EXPDT=98000),
//   VOL=(,RETAIN,,,SER=(KSM001)),TRTCH=COMP
    ↕  I N D E P E N D E N T  P A R T

ADASAV SAVE FILES=18
ADASAV UTYPE=EXU
ADASAV NOUSERABEND
```

Figure 2-4: Dependent JCL part

The dependent part has always two components:

Utility specific dataset component:

```
//DDSAVE1 DD DSN=ADASAV.DAEF.DB177.F018,
//   DISP=(,KEEP),
//   UNIT=3480,LABEL=(1,SL,EXPDT=98000),
//   VOL=(,RETAIN,,,SER=(KSM001)),TRTCH=COMP
```

Utility specific parameter's component:

```
ADASAV SAVE FILES=18
ADASAV UTYPE=EXU
ADASAV NOUSERABEND
```

The independent part can and must be defined in the description of the job stream. As to dependent part, it is impossible to provide it's definition, because it receives the real values dynamically during the JCL / REXX generation. The possible solution is to use the *break points* which ensure the possibility of dynamic values substitution and make the generation process extremely flexible.

Break Points

Here are the SEZAM break points in the alphabetical order:

Break Point	Function	Required/Optional
USERCB/E	Processing of ADABAS CLOGR datasets	Required
USERDB/E	Processing of ADABAS DSIMR dataset	Required
USERDD	Processing of utility specific datasets: DDSAVE1 etc.	Required
USERFB/FE	Processing of ADABAS FORMAT utility	Required
USERNB/E	Processing of NATURAL profile parameters	Required
USERN2B/E	Processing of NATURAL INPL system command	Required
USEROS	VM/ESA system indicator	Optional
USERPA	Processing of utility specific parameter's	Required
USERPB/E	Processing of ADABAS PLOGR datasets	Required
USERRB/E	Processing of ADABAS RLOGR and RLOGM datasets	Required
USEROS	VM/ESA system indicator	Optional
USERSB/E	Processing of ADABAS single mode parameters	Required
USERTB/E	Processing of ADABAS SORT and TEMP datasets	Required

The actions take place by the processing of the break points are the following:

# USERCB/E	all records between USERCB and USERCE are included by the execution of utilities which require CLOGR1/CLOGR2 datasets
# USERDB/E	all records between USERDB and USERDE are included by the execution of utilities which require DSIMR dataset
# USERDD	place where the utility's datasets are to be substituted, for example: DDSAVE1 (Fig. 2-4).
# USERFB/E	all records between USERFB and USERFE are excluded by the formatting of the new datasets
# USERNB/E	all records between USERNB and USERNE are excluded by the execution of NATURAL batch with user specific parameters
# USERN2B/E	all records between USERN2B and USERN2E are included by the execution of NATURAL INPL
# USEROS	(only for VM/ESA) the VM/ESA operating system indicator, must be set to 'VM'
# USERPA	place where the utility's parameters are to be substituted (Fig. 2-4).
# USERPB/E	all records between USERPB and USERPE are included by the execution of utilities which require PLOGR1/PLOGR2 datasets
# USERRB/E	all records between USERRB and USERRE are included by the execution of utilities which require RLOGR1/RLOGM1 datasets
# USERR2B/E	all records between USERR2B and USERR2E are included by the execution of ADARAI RECOVER
# USERSB/E	all records between USERSB and USERSE are included by the execution in ADABAS SINGLE mode
# USERTB/E	all records between USERTB and USERTE are included by the execution of utilities which require SORT and TEMP datasets

System Variables

Environment System Variables

Some parameters of the independent part (Fig. 2-3) can not be premeditated because they get their values dynamically. For example, ADARUN MODE (mode of operation) which can be MULTI or SINGLE. To provide this possibility SEZAM uses a concept of *environment system variables* which must/can be defined in the environment:

Variable	Description	Required/Optional
#COMMENTS	JCL commentary, is generated dynamically	Optional
#JOBNAME	Job name, is defined in accordance with site-specific rules in environment maintenance	Optional
#PROG	ADARUN PROGRAM parameter, is generated dynamically	Required
#MODE	ADARUN MODE parameter, is generated dynamically	Required
#USERNAME	User name, is replaced with the NATURAL system variable *USER	Optional
#USERINFO	User specific JCL information, is defined in user maintenance	Optional

SEZAM functions can not be performed properly if the required breakpoints or the system variables are missing or invalid. To check the environment definition against possible errors use the environment verification facility.

The usage of dynamic substituted statements increases the flexibility of the environments and reduces the storage required for the SEZAM system file. This feature allows definition of one or more blocks of statements within GRS records. These statements could be dynamically modified during the JCL/REXX execution, or generation.

For more information about the usage of dynamic substituted statements please refer to *SEZAM Users Manual.*

Appendix A contains the examples of the break points and system variables in a different operating system syntax.

Date and Time System Variables

SEZAM date and time system variables contain information about the current date and time. They may be referenced at any point within an environment or JCL/REXX.

Variable	Date Format
#DATJ	YYDDD (Julian date)
#DAT4J	YYYYDDD (Julian date)
#DATN	YYYYMMDD
#DATI	YYMMDD
#DATE	DDMMYY
#TIMN7	HHMMSST
#TIMN6	HHMMSS
#TIMN4	HHMM
#TIMN2	HH

Access Control

SEZAM has a comprehensive system for control the access to ADABAS database resources and to the various SEZAM functions. SEZAM enables protection mechanism against an unauthorised access and improper use of the ADABAS databases in terms of environments. It is possible to define exactly who is allowed to do what, by restricting the use of environments, ADABAS files and SEZAM functions (i.e. ADABAS utilities, NATURAL utilities, NATURAL system commands etc.).

This is accomplished by defining the objects and the relations between them. There are the following main object types within SEZAM:

* USERS

* UTILITIES, SYSTEM COMMANDS etc.

* ENVIRONMENTS

* ADABAS FILES

The relationship between these objects is shown in Figure 2-5.

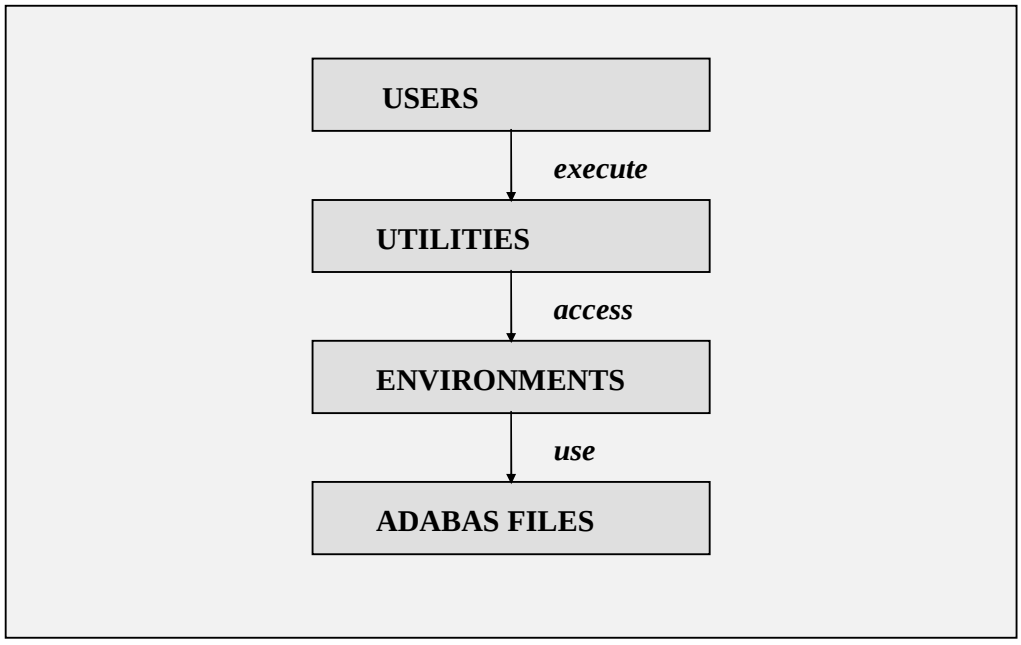


Figure 2-5: SEZAM Objects and Relations

Each NATURAL user who intends to operate with SEZAM should be registered in SEZAM, i.e. user must be defined with one of the following user type authority classification:

* A(Administrator)

* M(Manager)

* E(Expert)

* P(Person)

This classification pre-determines the user's authorities of using the SEZAM objects.

ADMINISTRATOR may execute all utilities in all environments against all files. Only ADMINISTRATOR with extra administration authority may execute the SEZAM administration functions, i.e. create and modify users, environments etc. This user type is determined only for the SEZAM system administrators. The ADMINISTRATOR without such authority may only browse through the various SEZAM objects.

MANAGER may use a great part of functions with the all files but only in the predefined environments. This user type can be assigned to the people responsible for the ADABAS system maintenance only in the certain databases.

EXPERT may use a lot of functions with up to 50 predefined ADABAS files in the pre-defined environments. This user type is designed for the experienced ADABAS/NATURAL developers.

PERSON may use a small part of functions with up to 50 predefined ADABAS files in the predefined environments. Normally, this is the standard user type which will apply to most potential users.

Each user type has the strictly defined set of allowed SEZAM functions which organisation is represented in Figure 2-6.

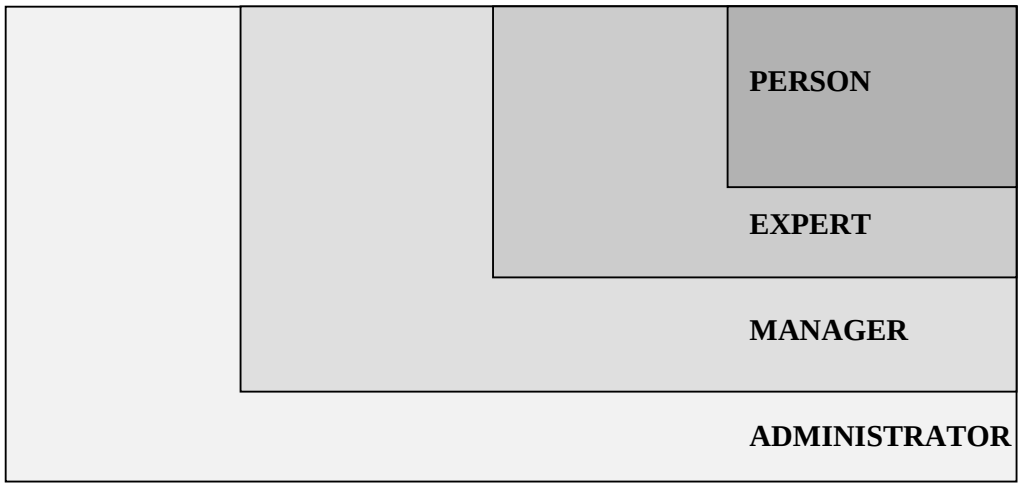


Figure 2-6: User's Authorities to use the SEZAM functions

User must be defined in each environment where he is going to operate. The type of the user in each environment can be different. The only exception is ADMINISTRATOR, who is defined only once.

The usage of environments and ADABAS files can be restricted for each individual user. At the same point SEZAM does not permit the individual definition of the set of available utilities, it can only be done pro user type. It is realised on the basis of *thresholds*, which are assigned to every SEZAM function, and should be achieved or exceeded by the user when attempting to execute the utility. The balance between the user type and the threshold value makes it possible to ensure the high level of protection.

SEZAM provides direct commands for performing the most functions. Each direct command corresponds to a function on SEZAM menus and can be executed only by users with correspondent type. The system reaction on the direct command depends on the balance between the user's type and the function's threshold.

The relationship between thresholds and user types is shown in Figure 2-7.

USER TYPE / ***THRESHOLD***	**A**	**M**	**E**	**P**
A	**FUNCTION ALLOWED**	**FUNCTION NOT ALLOWED**	**FUNCTION NOT ALLOWED**	**FUNCTION NOT ALLOWED**
M	**FUNCTION ALLOWED**	**FUNCTION ALLOWED**	**FUNCTION NOT ALLOWED**	**FUNCTION NOT ALLOWED**
E	**FUNCTION ALLOWED**	**FUNCTION ALLOWED**	**FUNCTION ALLOWED**	**FUNCTION NOT ALLOWED**
P	**FUNCTION ALLOWED**	**FUNCTION ALLOWED**	**FUNCTION ALLOWED**	**FUNCTION ALLOWED**

Figure 2-7: Relationship between thresholds and user types

The current function and command threshold settings can be viewed by SEZAM Retrieval functions (see section *Retrieval Functions*).

3. How to Process Administration

SEZAM administration contains menus of the functions available on the level of the user type ADMINISTRATOR.

To invoke the SEZAM administration subsystem, enter on the Administrator start-up menu in the „Function“ field the corresponding number of the „SEZAM Administration“ function. The example of start-up menu is shown in Figure 3-1.

When SEZAM Administration menu appears (Fig. 3-2), select the desired component of the SEZAM Administration (Fig. 1-1) by entering the appropriate function code.

Processing of SEZAM maintenance and retrieval functions should be done from the corresponding menus (Fig. 3-3, 3-4).

SEZAM Administration issues a message confirming each completed function. If an error occurs, a message appears describing the error. Before doing any error analysis, try reviewing the help information („?“ or PF1) for the last step you performed to see if any requirements were overlooked; then retry the operation. For information about SEZAM Messages refer to *SEZAM Messages Manual*.

Subsequent sections in this manual describe the major SEZAM Administration functions and menu/screen structures in the order they appear.

SEZAM Utilities Manual describes the various SEZAM batch utilities.

```
 09:50:22 ----------------- Administrator Startup Menu ------------ 2006-07-14
 Function ===> 1

 _ 1 SEZAM administration
 _ 2 ADABAS maintenance
 _ 3 ADABAS EVENT REPLICATOR maintenance
 _ 4 NATURAL maintenance
 _ 5 Finished objects
 _ 6 Special functions
 _ 7 Authorities









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 3-1: Administrator Start-up menu

```
13:33:10 ------------------ Sezam administration ------------------ 2003-08-1
Function ===>

 _ 1 Maintenance
 _ 2 Retrieval
 _ 3 Utilities
 _ 4 Corrections
 _ 5 Options









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 3-2: SEZAM Administration menu

```
13:37:23 ------------------- Sezam maintenance -------------------- 2003-08-11
Function ===>

_ 1 User
_ 2 Environment
_ 3 History records
_ 4 Parameter's list
_ 5 Saved job
_ 6 Translation table









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 3-3: SEZAM Maintenance menu

```
13:39:59 ------------------- Sezam retrieval ---------------------- 2003-08-11
Function ===>

_ 1 Utilities
_ 2 Commands
_ 3 Environments
_ 4 Resources









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 3-4: SEZAM Retrieval menu

Screens

The SEZAM Administration screens can be represented in one of the following formats:

* MENU SCREENS have a selection list of possible functions. The user selects the function using cursor, or entering an appropriate number in the „Function“ field at the top of the screen. Example of menu is shown in Figure 3-2.

* FUNCTIONAL SCREENS serve for the performing of the various SEZAM administration functions. The direct command can be entered in the „Command“ field. Example of functional screen is shown in Figure 3-5.

* HELP SCREENS contain the help information. Example of help screen is shown in Figure 3-6.

```
13:43:02 --------------------- Record list ----------------------- 2003-08-11
Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.............................................................................
 Environment ===> MVS
 Section     ===> GRS

 Co  Record      Pa   Pn   Value
 --  ----------  --   --   ----------------------------------------------------
 __  #ADARUN-DB  54   54   ADARUN DBID=333
 __  #DDASSOR1   10   30   //DDASSOR1 DD DSN=DB333.ASSOR1,DISP=SHR
 __  #NODE       3    3    /*ROUTE XEQ MVS
 __  ADARUN-P    53   53   ADARUN PROG=#PROG
 __  ADARUN-PLG  56        ADARUN PLOGRQ=NO
 __  ADARUN-RAI  59        ADARUN UEX2=ADAEX2
 __  CMPRINT          50   //CMPRINT DD SYSOUT=*
 __  CMSYNIN          55   //CMSYNIN DD *

 Total records ===> 55

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr                  +           SrtR  SrtA  SrtN
```

Figure 3-5: Record List Functional Screen

```
13:43:55 ---------------------- Record list ---------------------- 2003-08-11
 Command     - direct command's field
 SCROLL      - scroll PAGE / LINE / TOP / BOT can be used by PF7/PF8 keys
 Co          - line command's field
 Env/Section - current database environment/section of database environment
 Record      - record's name, the next names are reserved break points and
               and must be included in GRS:
               USERFB/E - the section which is to be excluded by the
                          formatting of the new datasets
               USERDD   - the place where the utility's datasets is to be
                          substituted; for example: DDOUT1
               USERPA   - the place where the utility's parameters is to be
                          substituted (DDKARTE)
               USERNB/E - the section which is to be excluded by the Natural
                          batch execution with user specific parameters
               USERTB/E - the section which is to be included by the executing
                          of utilities which require SORT/TEMP datasets
               USERSB/E - the section which is to be included by the executing
                          only in SINGLE mode
               USERPB/E - the section which is to be included by the executing
                          of utilities which require PLOGR1/PLOGR2 datasets
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
                 Exit                         Next
```

Entering Commands

SEZAM commands can be entered on the menus, or on the functional screens. To receive the information about the commands available on the corresponding screen, use the following commands:

CD - available direct commands.
CM - available commands on the functional screens (Fig. 3-7).

```
13:46:16 ----------- Environment maintenance / Commands ----------- 2003-08-11
Direct commands:
  BR/CR/DE/ED/RE   - browse/create/edit/rename record
  SC   - scan and replace all records
  CD   - available global direct command's list
  VE   - verify database environment
  SRS  - Sample Record Section processing

Line commands:
  BR/ED/DE/RE  - browse/edit/delete/rename record

Filter functions:
  Record - show records starting with specified record's name
  Pa/Pn  - show records starting with specified pa/pn

PF-Keys:
  PF1  - help
  PF4  - refresh; is recommended after filter processing
  PF7/PF8 - scroll forwards / backwards
  PF10/PF11/PF12 - show the list sorted by record SrtR / prta SrtA / prtn SrtN

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
                 Exit
```

Figure 3-8: Available Commands Screen (CM-command)

Once you are familiar with the SEZAM Administration and know how to find your way from menu to menu, from function to function, you may also be interested in a faster and more flexible way of handling SEZAM: instead of having to fastidiously „walk“ from one menu to another, you may also „jump“ directly to the function you want. This is done by using of *direct commands*.

You may enter a direct command on every SEZAM Administration screen which provides a command or function line:

Command **===>**

Function **===>**

If you enter a direct command which is invalid, you will receive an error message. For the list of all available direct commands, enter CD(SHOW DIRECT COMMAND'S LIST) in the command line.

The direct commands equivalent to each function together with threshold settings are shown in the Appendix C.

Program Function Keys

The following program function (PF) keys appear on all SEZAM Administration screens:

Key	Function
PF1	Help
PF3	Exit to previous screen

Other keys appear on some screens. Available PF keys and their functions are listed at the bottom of each SEZAM screen. The extended information about PF keys assignments is provided on the functional screens with the „CM“ (Command Help) Command (Fig. 3-7).

Getting Help

SEZAM Administration provides the possibility of getting help on every screen.

When entered "?“ (PF1 can also be used) SEZAM displays a brief information describing the screen. This „on-line help“ gives information about the individual functions; on-line help is the very best choice when questions occur while operating SEZAM.

4. User Maintenance

The user maintenance is the facility which provides definition, modification, browse, copy and delete of SEZAM users.

To invoke the SEZAM user maintenance, enter on the SEZAM Maintenance menu (Fig. 3-3) in the „Function“ field the corresponding number of the „User maintenance“ function:

```
     1 - User maintenance
```

All user maintenance functions can be processed from the screen with the list of all SEZAM users, which is shown in Figure 4-1.

```
13:53:36 -------------- User maintenance / User list -------------- 2003-08-11
Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.....................................................................
 Co  User     User User  Env.       Env.  File                 Date of
     name     type auth. name       stat. list                 creation
 --  -------- ---- ----- ---------- ----- -------------------- --------------
 __  JNM      A    N                                          1999-04-13
 __  JPI      P    N     A016       A                          1999-10-26
 __  JTE      M    N     A018       A                          2000-04-25
 __  JWO      M    N     F009       A                          2000-12-06
 __  KOM      A    N                                          1999-12-01
 __  KSM      A    Y                                          1999-04-13
 __  KSM1     P    N     F044       A                          2002-12-11
 __  LFD      M    N     BS2000-1   A                          2003-01-21
 __  LFD      M    N     BS2000-2   A                          2003-01-21
 __  LFD      M    N     MVS        A                          1999-09-21

 Total records ===> 40

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr                  +
```

Figure 4-1: User List Screen

Create User

To create the user definition perform the following steps:

Enter CR(CREATE USER) command in the „Command“ field on the user list screen (Fig. 4-1).

Enter parameters of the user who has to be created (Fig. 4-2):

Parameter	Description	Required/Optional
USER NAME	Name of user to be created	Required
ENVIRONMENT	Name of environment, where user have to be defined	Required for types: M/E/P Don’t enter for type: A
USER INFO	User specific job information, corresponds to the #USERINFO system variable in the environment description	Optional
USER TYPE	Type of user to be created	Required

If creating a user of type A specify an extra administrative authorisation.

If creating a user of type E, or P enter up to 50 ADABAS files with which the user can operate in the current environment (Fig. 4-3).

After successfully processing the created user appears in the list of SEZAM users (Fig. 4-1) and the following message is displayed:

SEZ0010: User created successfully

```
13:59:54 -------------- User maintenance / Create user ------------ 2003-08-11
Command ===>

? - Help
.............................................................................
Enter user to be created:
    User name   ===> USR001
    Environment ===> DB001
    User info   ===> (USR001),'DB001-USR001'
    User type   ===> P  <A/M/E/P>









 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 4-2: Create User Screen

```
14:03:35 -------- Create expert(person) / Enter file list --------- 2003-08-11
Command ===>

? - Help
.............................................................................
Enter the file list for the following user:
   User name   ===> USR001
   Environment ===> DB001

File list:
1____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
3____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
13___ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
17___ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 4-3: Create Expert(Person) Screen

Browse User

To view the user definition perform the following steps:

Enter BR(BROWSE USER) as direct command in the „Command“ field on the user list screen (Fig. 4-1), or as line command in the „Co“ field against the appropriate user.

If the command was entered as direct command enter parameters of the user who has to be browsed (Fig. 4-4):

Parameter	Description	Required/Optional
USER NAME	Name of user to be browsed	Required
ENVIRONMENT	Name of environment, where user is defined	Required for types: M/E/P Don’t enter for type: A

The user definition is represented in Figure 4-5.

After successfully processing the following message is displayed:

SEZ0014: User browsed successfully

```
14:07:35 ---------------- User maintenance / Enter user ----------- 2003-08-11
Command ===>

? - Help
.....................................................................
Enter user to be browsed:

   User name   ===> USR001__
   Environment ===> DB001









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 4-4: Example of Enter User Screen

```
15:45:06 --------- User maintenance / Browse expert(person) -------- 2003-08-11
Command ===>

? - Help
.....................................................................
User name        ===> USR001
User info        ===> (USR001),'DB001-USR001'
User type        ===> P               Environment ===> DB001
Date of creation ===> 2003-08-11      Created by  ===> KSM
File list:
1
3
13
17









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 4-5: Browse Expert(Person) Screen

Modify User

To change the user definition perform the following steps:

Enter ED(EDIT USER) as direct command in the „Command“ field on the user list screen (Fig. 4-1), or as line command in the „Co“ field against the appropriate user.

If the command was entered as direct command enter parameters of the user which definition has to be modified (Fig. 4-4):

Parameter	Description	Required/Optional
USER NAME	Name of user to be modified	Required
ENVIRONMENT	Name of environment, where user is defined	Required for types: M/E/P Don’t enter for type: A

Modify the desired user definition (Fig. 4-6).

After successfully processing the following message is displayed:

SEZ0022: User modified successfully

```
14:55:54 ---------- User maintenance / Edit expert/person --------- 2003-08-11
Command ===>

? - Help
................................................................................
Enter the file list for the following user:
  User name   ===> USR001                          Environment ===> DB001
  User info   ===> (USR001),'DB001-USR001'         User type   ===> P
  Date of creation ===> 2003-08-11
  Created by       ===> KSM
File list:
3___ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
17__ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
133_ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
251_ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 4-6: Edit Expert(Person) Screen

Copy User

To copy the user definition from one user to another perform the following steps:

Enter CO(COPY USER) as direct command in the „Command“ field on the user list screen (Fig. 4-1), or as line command in the „Co“ field against the appropriate user.

Enter parameters of the source and target users (Fig. 4-7):

Parameter	Description	Required/Optional
SOURCE USER NAME	Name of user to be copied	Required
SOURCE ENVIRONMENT	Name of environment, where source user is defined	Required for types: M/E/P Don’t enter for type: A
TARGET USER NAME	Name of target user If blank, is equal to the source name	Optional
TARGET ENVIRONMENT	Name of target environment If blank, is equal to the source environment	Optional

After successfully processing the new user appears in the list of SEZAM users (Fig. 4-1) and the following message is displayed:

SEZ0017: User copied successfully

```
16:11:06 ---------------- User maintenance / Copy user ------------- 2003-08-11
Command ===>

? - Help
.............................................................................
Enter user to be copied (source user):

   User name   ===> USR001__
   Environment ===> DB001


Enter target user:

   User name   ===> ________
   Environment ===> DB002




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 4-7: Enter User Screen

Delete User

To delete the user definition perform the following steps:

Enter DE(DELETE USER) as direct command in the „Command“ field on the user list screen (Fig. 4-1), or as line command in the „Co“ field against the appropriate user.

If the command was entered as direct command enter parameters of the user who has to be deleted (Fig. 4-4):

Parameter	Description	Required/Optional
USER NAME	Name of user to be deleted	Required
ENVIRONMENT	Name of environment, where user is defined	Required for types: M/E/P Don’t enter for type: A

Confirm delete with the name of the user and the name of the environment where user is defined (only for user type M/E/P). The example of confirmation screen is shown in Figure 4-8.

After successfully processing the deleted user disappears from the list of SEZAM users (Fig. 4-1) and the following message is displayed:

SEZ0005: User deleted successfully

```
16:32:33 -------------- User maintenance / Delete user ------------- 2003-08-11
Command ===>

? - Help
.....................................................................
Please confirm delete with the name USR002     / DB001
                              ===> USR002____ / DB001
                                   
                                   
                                   
                                   
                                   
                                   
                                   
                                   
                                   
                                   
                                   
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 4-8: Delete User Screen

5. Environment Maintenance

The environment maintenance is the facility which provides definition, modification, browse and delete of SEZAM environments.

To invoke the SEZAM environment maintenance, enter on the SEZAM Maintenance menu (Fig. 3-3) in the „Function“ field the corresponding number of the „Environment maintenance“ function:

```
     2 - Environment maintenance
```

All environment maintenance commands can be processed from the screen with the list of all environments (Fig. 5-1). The following commands can be executed:

Command	Description
CR/DE/CO/RE	Create/Delete/Copy/Rename environment
SC/VE	Mass update/Verify environment
GRS/SRS	Process GRS/SRS section records
CRU/DRU	Create/Delete job name rule
CDE/DDE	Create(modify)/Delete description records

```
16:22:41 ------- Environment maintenance / Environment list -------- 2003-08-11
 Command ===>                                                SCROLL ===> PAGE

 CM  - Command help
.....................................................................................
 Co   Env.       Description       General Sample  Jobname Date of    Created
                                    Record  Record  Rule    creation   by
                                    Section Section
 ---  ---------- ----------------- ------- ------- ------- ---------- --------
 ___  A001       daea Application  Yes     Yes     Yes     2001-11-15 KSM
 ___  A012       daea Application  Yes     Yes     Yes     2000-02-09 KSMFSLOD
 ___  A014       daea Application  Yes     Yes     Yes     2000-02-09 KSMFSLOD
 ___  A015       daea Application  Yes     Yes     Yes     2000-02-09 KSMFSLOD
 ___  A016       daea Application  Yes     Yes     Yes     2000-02-09 KSMFSLOD
 ___  A017       daea Application  Yes     Yes     Yes     2000-02-09 KSMFSLOD
 ___  A018       daea Application  Yes     Yes     Yes     2000-02-09 KSMFSLOD
 ___  A019       daea Application  Yes     Yes     Yes     2000-02-09 KSMFSLOD
 ___  A020       daea Application  Yes     Yes     Yes     2000-02-16 KSM
 ___  A026       daea Application  Yes     Yes     Yes     2000-12-22 KSM

 Total records ===> 10
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refresh                +
```

Figure 5-1: Environment List Screen

The value „Yes“ in the General or Sample Record Section means that the corresponding section is not empty, i.e. there are records in it.
The value „Yes“ in the Jobname Rule field means that the rule has been defined for the corresponding environment.

Create Environment

To create the environment you have to create the first record in any section of it: GRS or SRS (Fig. 2-1). To do it take the following steps:

Enter CR(CREATE ENVIRONMENT) command in the „Command“ field on the environment list screen (Fig. 5-1).

Enter parameters of the environment which has to be created (Fig. 5-2):

Parameter	Description	Required/Optional
ENVIRONMENT	Name of environment, which has to be defined	Required
SECTION NAME	Name of the section (GRS/SRS), where the first record has to be placed	Required
RECORD NAME	Name of the first record being created	Required
RECORD PRTA	Record priority in ADABAS JCL stream	Optional, only for GRS records
RECORD PRTN	Record priority in NATURAL JCL stream	Optional, only for GRS records

If the priority values (PRTA/PRTN) are not entered, this record will not participate in the generation process for the ADABAS and/or NATURAL jobs.

Enter the value of the record (Fig. 5-3).

After successfully processing the created environment appears in the list of SEZAM environments (Fig. 5-1) and the following message is displayed:

SEZ0026: Environment created successfully

```
16:27:35 ------- Environment maintenance / Create environment ----- 2003-08-11
 Command ===>

 ? - Help
 ..............................................................................
  Enter environment to be created:

    Environment  ===> DB002


  Enter section and record name:

    Section name ===> GRS__

    Record name  ===> JCH-A_____
    Record prta  ===> 1_
    Record prtn  ===> __



 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-2: Create Environment Screen

```
16:30:52 --------- Environment maintenance / Create record -------- 2003-08-11
 Command ===>

 ? - Help
 ..............................................................................
  Environment ===> DB002
  Section     ===> GRS
  Record name ===> JCH-A
  Record prta ===> 1
  Record prtn ===>

  Enter the record value:
  //#JOBNAME JOB #USERINFO,CLASS=A,MSGCLASS=X,REGION=3M,____________________
  //   NOTIFY=&SYSUID_____________________________________________________
  //* #COMMENTS_________________________________________________________
  ___________________________________________________________________
  ___________________________________________________________________
  ___________________________________________________________________
  ___________________________________________________________________
  ___________________________________________________________________
  ----+---010---+---020---+---030---+---040---+---050---+---060---+---070--
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-3: Create Record Screen

Modify Environment

The environment modification makes it possible to perform modification operations over the records which are defined in the environment. The following commands can be processed:

Command	Description
BR/CR	Browse/Create record
ED/RE	Edit/Rename record
SC/VE	Mass update/Verify environment
DE	Delete record
GRS/SRS	Switch to GRS/SRS section

All listed above commands must be entered on the screen with the list of all records in the appropriate section (GRS/SRS) of the corresponding environment. The example of this screen is shown in Figure 5-4. To obtain it perform the following:

Specify the section (GRS/SRS) the records of which have to be processed.
To do it enter on the environment list screen (Fig. 5-1) as direct command in the „Command“ field or as line command in the „Co“ field the following:
- GRS for General Record Section
- SRS for Sample Record Section

If the GRS/SRS command was entered as direct command enter the name of the environment which contains the section being processed (Fig. 5-5).

The following program function (PF) keys appear additionally on the screen (Fig. 5-4) :

Key	Function	Description
PF4	Refresh	Refresh the screen contents
PF10	Sort by record name	Show the screen contents in the sequence of record name
PF11	Sort by priority in ADABAS JCL stream	Show the screen contents in the sequence of priority in ADABAS JCL stream (PA)
PF12	Sort by priority in NATURAL JCL stream	Show the screen contents in the sequence of priority in NATURAL JCL stream (PN)

```
 16:34:31 --------------------- Record list ------------------------ 2003-08-11
  Command ===>                                                 SCROLL ===> PAGE

    CM - Command help
.................................................................................
  Environment ===> DB002
  Section     ===> GRS

  Co  Record      Pa   Pn   Value
  --  ----------  --   --   ------------------------------------------------------
  __  JCH-A       1         //#JOBNAME JOB #USERINFO,CLASS=A,MSGCLASS=X,REGION=3









  Total records ===> 1

 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit  Refr                               SrtR  SrtA  SrtN
```

Figure 5-4: Record List Screen

```
16:16:43 ------ Environment maintenance / Enter environment -------- 2001-06-11
 Command ===>

 ? - Help
.................................................................................
   Section ===> GRS


 Enter environment the section of which have to be processed:

   Environment ===> DB002









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 5-5: Enter Environment Screen

Create Record

To add a new record to the section execute the next steps:

Enter CR(CREATE RECORD) as direct command in the „Command“ field on the screen with all records (Fig. 5-4).

Enter parameters of the record which being created (Fig. 5-6):

Parameter	Description	Required/Optional
RECORD NAME	Name of the record to be created	Required
RECORD PRTA	Record priority in the ADABAS JCL stream	Optional for GRS
RECORD PRTN	Record priority in the NATURAL JCL stream	Optional for GRS

The names of the GRS records are not informative and have no influence on the JCL generation process. The exceptions are:

- break points, which must have the predefined names: USERDD, USERPA etc. For more information about break points consult *SEZAM Basic Principles.*
- system records: the records with the names starting with '#' are the environment identification records, or i-records. The usage of the i-records together with SEZENV statement accelerates the job generation process and makes it possible to specify more than one environment with the same DBID. The SEZENV parameter should be set to the environment's name.

The SRS records are used in accordance with JCL / REXX requirements for the ADABAS/ NATURAL utilities, for example: AUSBA, BACK, PLOGR1, OUT1 etc. For example, ADABAS utility UNLOAD requires the allocation of OUT1 dataset. To provide the possibility of default allocation, the corresponding SRS record with the name OUT1 must be defined in the environment. For information about dataset allocation consult *SEZAM User’s Manual.*

If the priority values (PRTA/PRTN) are not entered, the corresponding GRS record does not participate in the generation process for the ADABAS/NATURAL.

Enter the value of record (Fig. 5-7).

After successfully processing the created record appears in the list of the records (Fig. 5-8) and the following message is displayed:

SEZ0033: Record created successfully

```
16:38:39 --------------- Create record / Enter record ------------ 2003-08-11
Command ===>

  ? - Help
 ..............................................................................
    Environment ===> DB002
    Section     ===> GRS

  Enter record to be created:

    Record name ===> EX ADARUN_
    Record prta ===> 2_
    Record prtn ===> __









 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-6: Create Record / Enter Record Screen

```
16:38:41 --------------- Create record / Enter record ------------ 2003-08-11
Command ===>

  ? - Help
 ..............................................................................
  Environment ===> DB002
  Section     ===> GRS
  Record name ===> EX ADARUN
  Record prta ===> 2
  Record prtn ===>

  Enter the record value:
  //STEP01 EXEC PGM=ADARUN_____________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
   ----+---010---+---020---+---030---+---040---+---050---+---060---+---070--
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-7: Create Record Screen

```
16:44:01 --------------------- Record list ----------------------- 2003-08-11
Command ===>                                                SCROLL ===> PAGE

CM - Command help
.....................................................................
Environment ===> DB002
Section     ===> GRS

Co  Record      Pa   Pn   Value
--  ----------  --   --   ------------------------------------------------
__  EX ADARUN   2         //STEP01 EXEC PGM=ADARUN
__  JCH-A       1         //#JOBNAME JOB #USERINFO,CLASS=A,MSGCLASS=X,REGION=3









  Total records ===> 2

 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit  Refr                              SrtR  SrtA  SrtN
 SEZ0033: Record created successfully
```

Figure 5-8: Record List Screen after execution of „Create Record“ command

Browse Record

To view the contents of the record take the next steps:

Enter BR(BROWSE RECORD) as direct command in the „Command“ field on the screen with all records (Fig. 5-4), or as line command in the „Co“ field against the appropriate record.

If the command was entered as direct command enter the name of the record which contents have to be browsed (Fig. 5-9).

The contents of the record is shown in Figure 5-10.

After successfully processing the following message is displayed:

SEZ0043: Record browsed successfully

```
13:51:17 --------------- Browse record / Enter record -------------- 2003-08-11
 Command ===>

 ? - Help
.............................................................................
   Environment ===> DB002
   Section     ===> GRS

 Enter record to be browsed:

   Record name ===> JCH-A_____









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 5-9: Example of Enter Record Screen

```
13:54:34 --------- Environment maintenance / Browse record --------- 2003-08-11
  Command ===>

  ? - Help
 .............................................................................
  Environment ===> DB002
  Section     ===> GRS
  Record name ===> JCH-A
  Record prta ===> 1
  Record prtn ===>

  Record value:
  //#JOBNAME JOB #USERINFO,CLASS=A,MSGCLASS=X,REGION=3M,
  //   NOTIFY=&SYSUID
  //* #COMMENTS




  ----+---010---+---020---+---030---+---040---+---050---+---060---+---070--
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-10: Browse Record Screen

Modify Record

To change the contents of the record execute the next steps:

Enter ED(EDIT RECORD) as direct command in the „Command“ field on the screen with all records (Fig. 5-4), or as line command in the „Co“ field against the appropriate record.

If the command was entered as direct command enter the name of the record which contents have to be changed (Fig. 5-9).

Change the contents of the selected record on the screen (Fig. 5-11).

After successfully processing the following message is displayed:

SEZ0046: Record modified successfully

```
14:01:34 --------- Environment maintenance / Edit record ----------- 2003-08-11
  Command ===>

  ? - Help
 ..............................................................................
  Environment ===> DB002
  Section     ===> GRS
  Record name ===> JCH-A
  Record prta ===> 1
  Record prtn ===>

  Enter the record value:
  //#JOBNAME JOB #USERINFO,CLASS=A,MSGCLASS=X,REGION=3M,____________________
  //   NOTIFY=&SYSUID_____________________________________________________
  //* #COMMENTS_________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ___________________________________________________________________________
  ----+---010---+---020---+---030---+---040---+---050---+---060---+---070--
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-11: Edit Record Screen

Rename Record

To change the name of the record and/or the priorities in the ADABAS/NATURAL job streams do the following:

Enter RE(RENAME RECORD) as direct command in the „Command“ field on the screen with all records (Fig. 5-4), or as line command in the „Co“ field against the appropriate record.

If the command was entered as direct command enter the name of the record being renamed (Fig. 5-9).

Enter the new parameters of the record (Fig. 5-12):

Parameter	Description	Required/Optional
RECORD NAME USER NAME	New record name	Optional; if not entered is equal to the old name
RECORD PRTA	New priority in ADABAS JCL stream	Optional; if not entered is reset to zero
RECORD PRTN	New priority in NATURAL JCL stream	Optional; if not entered is reset to zero

After successfully processing the new record appears in the list of the records (Fig. 5-8) instead of the old one and the following message is displayed:

SEZ0052: Record renamed successfully

```
14:39:24 --------- Environment maintenance / Rename record --------- 2003-08-11
  Command ===>

  ? - Help
 ..............................................................................
    Environment ===> DB002
    Section     ===> GRS

  Old record/prta/prtn values:
    Record name ===> JCH-A
    Record prta ===> 1
    Record prtn ===>

  New record/prta/prtn values:
    Record name ===> JCL HEADER
    Record prta ===> 1_
    Record prtn ===> 1_




 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-12: Rename Record Screen

Delete Record

To delete the record take the next steps:

Enter DE(DELETE RECORD) as direct command in the „Command“ field on the screen with all records (Fig. 5-4), or as line command in the „Co“ field against the appropriate record.

If the command was entered as direct command enter the name of the record to be deleted (Fig. 5-9).

To confirm delete enter the name of the record (Fig. 5-13).

After successfully processing the deleted record disappears from the list of the records (Fig. 5-8) and the following message is displayed:

SEZ0039: Record deleted successfully

```
16:51:12 ----------- Environment maintenance / Delete record ------ 2003-08-11
Command ===>

? - Help
.....................................................................
Environment ===> DB002
Section     ===> GRS

Please confirm delete with the name EX ADARUN
                                ===> EX ADARUN_









 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-13: Delete Record Screen

Copy Environment

To copy all the records from one environment (source) to another (target) perform the following:

Enter CO(COPY ENVIRONMENT) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

Enter parameters of the source and target environments (Fig. 5-14):

Parameter	Description	Required/Optional
SOURCE ENVIRONMENT	Name of environment, which records are to be copied	Required
SOURCE SECTION	Name of section in source environment, all records of which are to be copied: GRS - records from GRS SRS - records from SRS ALL - records from GRS and SRS blank - sections are not copied	Optional
RULE	‘Y’ applies the existing in the source environment job name rule to the target environment	Required
DESCRIPTION	‘Y’ applies the existing in the source environment description to the target environment	Required
TARGET ENVIRONMENT	Name of environment, to which records have to be copied.	Required

After successfully processing the target environment appears in the list of environments (Fig. 5-1) and the following message is displayed:

SEZ0075: Environment copied successfully

```
11:24:21 -------- Environment maintenance / Copy environment ------- 2003-08-11
 Command ===>

 ? - Help
.............................................................................
 Enter source environment/section to be copied:
   Environment ===> DB001
   Section     ===> ALL__
   Rule        ===> Y
   Description ===> Y


 Enter target environment:
   Environment ===> DB003









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 5-14: Copy Environment Screen

Verify Environment

To check if the environment has been set up properly do the following:

Enter VE(VERIFICATION ENVIRONMENT) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

If the command was entered as direct command enter the name of environment being verified (Fig. 5-15).

If no errors was detected in the environment definition, the following message is displayed:

SEZ0147: Environment verified successfully

Otherwise the screen with verification protocol appears (Fig. 5-16) and the corresponding message is displayed:

SEZ0144: Environment verified with errors/warnings

```
15:48:46 ---- Environment maintenance / Environment verification --- 2003-08-11
  Command ===>

  ? - Help
 ..............................................................................
  Enter environment to be verified:

    Environment ===> DB002









 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
       Help        Exit
```

Figure 5-15: Example of Enter Environment Screen

```
16:06:17 ---- Environment maintenance / Environment verification --- 2003-08-11
 Command ===>                                                 SCROLL ===> PAGE

 ? - Help
..............................................................................
 Environment ===> DB002

 Index    Type            Message
 -----    ------------    ---------------------------------------
   1      Error           Statement PROG=#PROG is missing
   2      Error           Statement MODE=#MODE is missing
   3      Error           Break point USERDD is missing
   4      Error           Break point USERPA is missing
   5      Warning         Break point USERNB is missing
   6      Warning         Break point USERNE is missing
   7      Error           More than one different DBID



 Total records ===> 7

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 5-16: Environment Verification Screen (Error Protocol)

Delete Environment

To delete the environment definition and all records associated with it take the following steps:

Enter DE(DELETE ENVIRONMENT) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

If the command was entered as direct command enter the name of environment being deleted (Fig. 5-15).

Enter the name of environment (Fig. 5-17) together with the section (GRS/SRS/ALL) and job name rule being deleted. Confirm the delete on the confirmation screen.

After successfully processing the deleted environment disappears from the list of all environments (Fig. 5-1) and one of the following messages is displayed:

SEZ0029: Environment deleted successfully
SEZ0218: Environment and all it's components deleted successfully

```
10:35:48 ------- Environment maintenance / Delete environment ----- 2003-08-11
 Command ===>

 ? - Help
.............................................................................
 Enter environment to be deleted:

   Environment ===> DB003
   Section     ===> ALL
   Rule        ===> Y
   Description ===> Y









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 5-17: Delete Environment Screen

Rename Environment

To rename the environment (source) to another (target) perform the following:

Enter RE(RENAME ENVIRONMENT) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

Enter parameters of the source and target environments (Fig. 5-18):

Parameter	Description	Required/Optional
SOURCE ENVIRONMENT	Name of environment, which records are to be copied	Required
TARGET ENVIRONMENT	Name of environment, to which records have to be copied.	Required

After successfully processing the target environment appears in the list of environments (Fig. 5-1) and the following message is displayed:

SEZ0357: Environment renamed successfully

```
 17:06:49 ------ Environment maintenance / Rename environment ------ 2003-08-11
 Command ===>

 ? - Help
.............................................................................
 Enter source environment to be renamed:
   Environment ===> DB001_____

 Enter target environment:
   Environment ===> __________









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 5-18: Rename Environment Screen

Mass Update Environment

To process scan/replace against the environment components do the following:

Enter SC(MASS UPDATE ENVIRONMENT) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

Enter parameters of the source and target environments (Fig. 5-19):

Parameter	Description	Required/Optional
SECTION	Name of section, records of which are to be processed: GRS - records from GRS SRS - records from SRS ALL - records from GRS and SRS blank - sections are not copied	Optional
DESCRIPTION	‘Y’ includes the environment description records into processing	Required
USEREXIT	‘Y’ includes the job name’s rule user exit programs into processing	Required
LIST RECORDS	‘Y’ creates the list of the scanned/ replaced records	Required
RECORD LENGTH	Maximum record length can be reached after replace is completed	Required
UPPERCASE	'Y' converts the replace value for environment's description into upper case	Required

After successfully processing the target environment appears in the list of environments (Fig. 5-1) and one of the following message is displayed:

SEZ0313: Environment searched. 1 record(s) found
SEZ0312: Environment changed successfully. 1 record(s) replaced

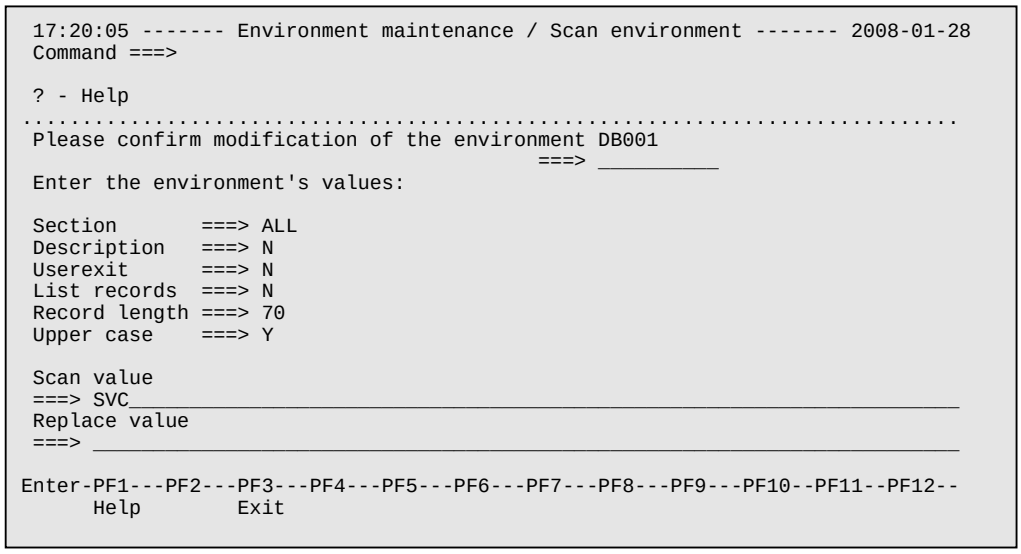


Figure 5-19: Scan Environment Screen

Job Name Rule Processing

The job name rule is the site-specific rule in accordance with which the name of the generated/executed job is dynamically created and substituted in the system variable #JOBNAME (see Appendix A).

Each rule consists of :

* Up to 10 source fields together with relative byte positions (Start/End);
  Each source field can accept predefined or free entered value.

  The following predefined SEZAM system variable can be used:

  #ENVIRONMENT - name of the database environment

  #USERNAME - name of the user

  #PROGNAME - name of the current executed ADABAS/NATURAL program

  Appendix B shows all possible values of the #PROGNAME system variable.

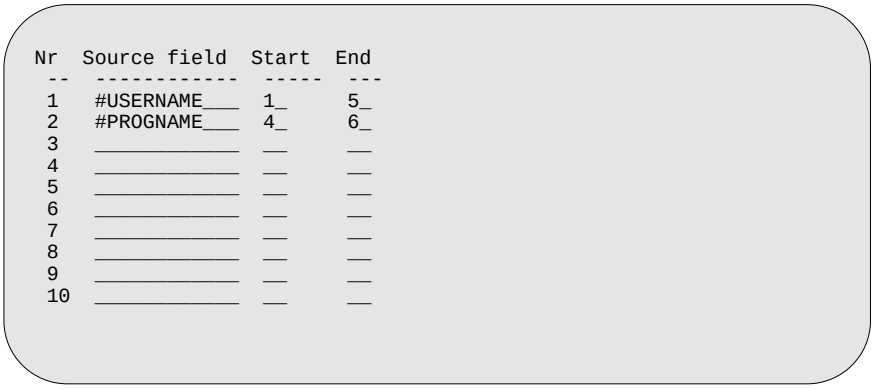
* Any number of #PROGNAME exceptions from the rule. The sense of the exceptions could be explained on the following example:

  ° The name of the job has to be generated as:

  - #USERNAME + Last three letters of the executed ADABAS utility.
    For example: IVULD, VNSAV, KSMORD, etc.

  - #USERNAME + „NAT“ for all the NATURAL programs.
    For example: IVNAT, VNSAV, KSMNAT, etc.

  ° Defined rule includes two pre-defined fields: #USERNAME and #PROGNAME:



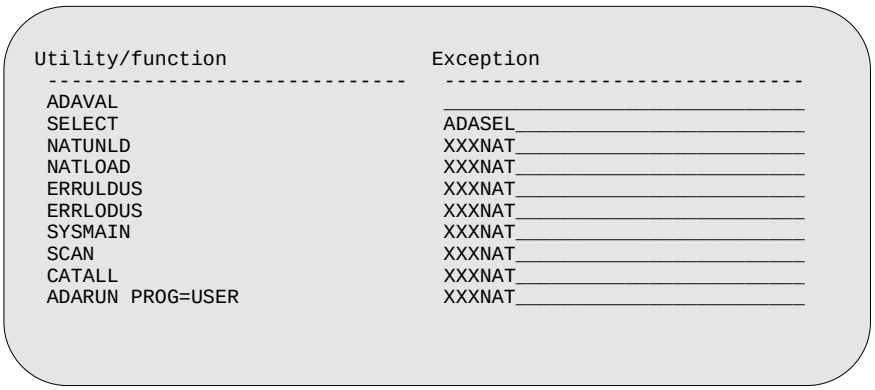
Nr	Source field	Start	End
1	#USERNAME___	1_	5_
2	#PROGNAME___	4_	6_
3	_____	__	__
4	_____	__	__
5	_____	__	__
6	_____	__	__
7	_____	__	__
8	_____	__	__
9	_____	__	__
10	_____	__	__

° In accordance with the defined rule and depending on the executed program (see Appendix B) the following job names will be generated:

#USERNAME	#PROGNAME	#EXCEPTION	#JOBNAME
KSM	ADAULD	no	KSMULD
KSM	SELECT	no	KSMECT
KSM	NATLOAD	no	KSMLOA

The first result (KSMULD) is correct, but the last two jobs are wrong. The solution to this problem is to use at the moment of the job name's generation and substitution not the „original“ but the „exceptional“ value of the #PROGNAME variable.

° Define the exceptions as following:



Utility/function	Exception
ADAVAL	
SELECT	ADASEL
NATUNLD	XXXNAT
NATLOAD	XXXNAT
ERRULDUS	XXXNAT
ERRLODUS	XXXNAT
SYSMAIN	XXXNAT
SCAN	XXXNAT
CATALL	XXXNAT
ADARUN PROG=USER	XXXNAT

° In accordance with the defined exceptions and depending on the executed program (see Appendix B) the job names are now generated properly:

#USERNAME	#PROGNAME	#EXCEPTION	#JOBNAME
KSM	ADAULD	no	KSMULD
KSM	SELECT	ADASEL	KSMSEL
KSM	NATLOAD	XXXNAT	KSMNAT

* The user exit program which can be used alone or in combination with ‘standard’ rule definition. The user exit program must be coded as a Natural sub-program with the following parameters:

```
01 #RESPONSE-CODE    (P002)   /* Response code:
                              /* 0 - output contains user name
                              /*     which is used in jobname
                              /*     rule instead of #USERNAME
                              /* 4 - output contains jobname;
                              /*     jobname rule is not used
01 #ENVIRONMENT      (A010)   /* Environment name
01 #USERNAME         (A008)   /* User name
01 #PROGNAME         (A030)   /* Program name; for example:
                              /* ADAREP, SYSTRANS etc.
01 #OUTPUT           (A008)   /* Output
```

The user exit returns the #RESPONSE-CODE and the #OUTPUT.
The system reaction depends on the #RESPONSE-CODE:

- #RESPONSE-CODE = 0
  The variable #OUTPUT must contain the modified value for the user’s name which will be used in the standard job name’s rule processing instead of the variable #USERNAME
- #RESPONSE-CODE = 4
  The variable #OUTPUT must contain the value for the job’s name which will be substituted into the system variable #JOBNAME. The standard job name’s rule processing does not take place

The example of the user exit program can be found in the subprograms UEXRUL* and in the Appendix D.

Create Rule

To create/modify the job name rule do the following:

Enter CRU(CREATE RULE) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

If the command was entered as direct command enter the name of environment which rule have to be processed (Fig. 5-15).

Specify the rule (Fig. 5-20). Mark „X“ to select the pre-defined SEZAM system variable, or enter the every other value directly.

To define the exceptions:
- press PF10 to get the rule exception screen (Fig. 5-21).
- enter the exceptions and press PF6 to accept it.
- press PF3 to return to the create rule screen.

After successfully processing the following message is displayed:

SEZ0207: Exceptions accepted successfully

To test the rule execute the following steps:
- press PF12 to get the test rule screen (Fig. 5-22).
- mark „X“ to select the value of the #PROGNAME variable
- press PF12 to test it. The generated job name will be shown in the „Jobname“ field.
- press PF3 to return to the create rule screen.

After successfully processing the following message is displayed:

SEZ0188: Job name rule tested successfully

On the create rule screen (Fig. 5-20) press PF6 to accept the rule together with the exceptions (if exist).

```
10:13:19 --------- Environment maintenance / Create rule ----------- 2008-01-28
Command ===>                                                SCROLL ===> PAGE
                                                    +-----------------------------+
 ? - Help                                           !  Select source field name:
.................................................. !
 Env A016          Exceptions 15                    !  Co  Source field  Length
                   Userexit   UEXRUL01              !  --  ------------  ------
                                                    !  __  #ENVIRONMENT  10
 Nr  Source field  Start  End                       !  __  #USERNAME     8
 --  ------------  -----  ---                       !  __  #PROGNAME     30
 1   #USERNAME___  1_     3_                        !
 2   A___________  1_     1_                        !
 3   #PROGNAME___  3_     6_                        !
 4   ____________  __     __                        !
 5   ____________  __     __                        !
 6   ____________  __     __                        !
 7   ____________  __     __                        !
 8   ____________  __     __                        +-----------------------------+
 9   ____________  __     __
 10  ____________  __     __

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Reset       Accept                  Except      Test
```

Figure 5-20: Create Rule Screen

```
13:20:38 ------- Environment maintenance / Rule exceptions --------- 2003-08-11
 Command ===>                                                SCROLL ===> PAGE

 ? - Help
.....................................................................
                                                  Environment ===> DB001
 Index   Utility/function                Exception
 -----   ------------------------------  ------------------------------
  86     ADAVAL                          ____________________________
  87     SELECT                          ADASEL_____________________
  88     NATUNLD                         XXXNAT_____________________
  89     NATLOAD                         XXXNAT_____________________
  90     ERRULDUS                        XXXNAT_____________________
  91     ERRLODUS                        XXXNAT_____________________
  92     SYSMAIN                         XXXNAT_____________________
  93     SCAN                            XXXNAT_____________________
  94     CATALL                          XXXNAT_____________________
  95     ADARUN PROG=USER                XXXNAT_____________________

 Total records    ===> 124
 Total exceptions ===> 15
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr        Accept -
```

Figure 5-21: Rule Exceptions Screen

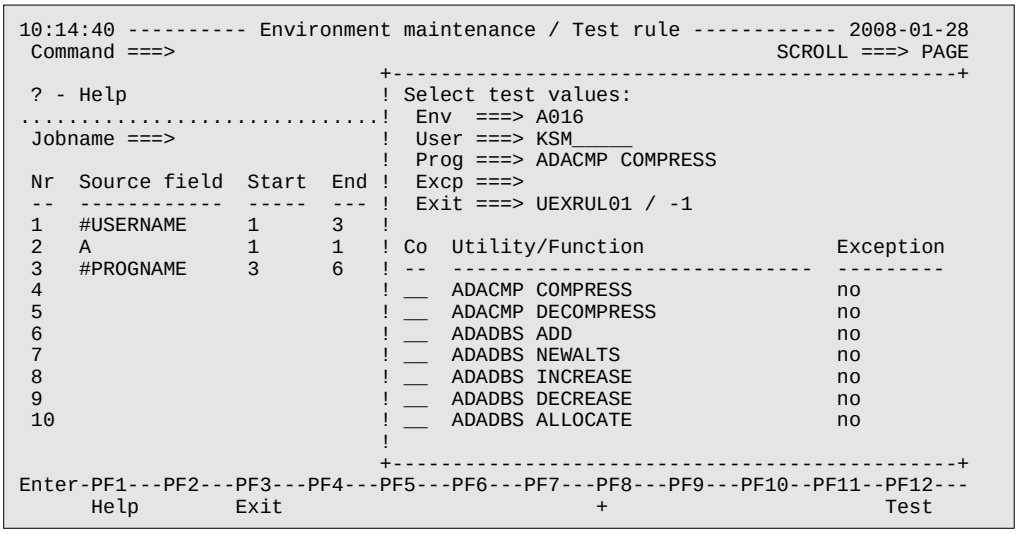


Figure 5-22: Test Rule Screen

Delete Rule

To delete the job name rule take the following steps:

Enter DRU(DELETE RULE) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

If the command was entered as direct command enter the name of environment being deleted (Fig. 5-15).

Enter the name of environment to confirm the delete of the rule (Fig. 5-23).

After successfully processing the following message is displayed:

SEZ0212: Job name rules deleted successfully

```
13:27:54 --------- Environment maintenance / Delete rule ----------- 2003-08-11
 Command ===>

 ? - Help
.............................................................................
 Please confirm delete with the name DB001
                               ===> DB001
                                    ===>
                                    ===>
                                    ===>
```

Description Processing

The description records comprise the notes on the environment in the free form.

Create Description

To create/modify the environment description do the following:

Enter CDE(CREATE DESCRIPTION) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

If the command was entered as direct command enter the name of environment which rule have to be processed (Fig. 5-15).

Specify the description (Fig. 5-24).

After successfully processing the following message is displayed:

SEZ0362: Description accepted successfully

```
17:49:24 ------ Environment maintenance / Create description ------ 2003-08-11
 Command ===>

 ? - Help
.............................................................................
 Environment ===> DB001

 Enter description record:
  Hdr daea Application Development_____________________________________________
 0001 Contact persons: KSM/VN_____________________________________________
 0002 Comments:_____________________________________________
 0003 Bookkeeping project_____________________________________________
 0004 _____________________________________________
 0005 _____________________________________________
 0006 _____________________________________________
 0007 _____________________________________________
 0008 _____________________________________________
 0009 _____________________________________________
 0010 _____________________________________________
 0011 _____________________________________________

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr        Accept
```

Figure 5-24: Create Description Screen

Delete Description

To delete the environment description take the following steps:

Enter DDE(DELETE DESCRIPTION) as direct command in the „Command“ field on the environment list screen (Fig. 5-1), or as line command in the „Co“ field against the appropriate environment.

If the command was entered as direct command enter the name of environment being deleted (Fig. 5-15).

Enter the name of environment to confirm the delete of the description (Fig. 5-25).

After successfully processing the following message is displayed:

SEZ0366: Description deleted successfully

```
17:52:24 ------ Environment maintenance / Delete description ----- 2003-08-11
 Command ===>

 ? - Help

.............................................................................
 Please confirm delete with the name DB001
                               ===> __________









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 5-25: Delete Description Screen

6. History Maintenance

The history maintenance is the facility which monitoring and accounting of the certain events within SEZAM. This data is accumulated in the history records and can be to retrieve information about the flow of modification of the various SEZAM system objects together with the successfully execution of the following commands:

EX(EXECUTE JCL)

GN(GENERATE JCL)

SU(SUBMIT JCL)

For information about SEZAM commands consult *SEZAM User's Manual.*

The next table shows in the alphabetical order the information which is kept in the history records for the different SEZAM commands:

COMMAND / ***INFORMATION***	**EX**	**GN**	**SU**	**SYSTEM**
COMMAND	**YES**	**YES**	**YES**	**YES**
DATE	**YES**	**YES**	**YES**	**YES**
ENVIRONMENT	**YES**	**YES**	**YES**	**NO**
EXTENDED INFORMATION	**YES**	**YES**	**YES**	**YES**
FILES	**YES**	**YES**	**YES**	**NO**
JCL	**YES**	**NO**	**YES**	**NO**
JOB LOCATION	**NO**	**YES**	**YES**	**NO**
TIME	**YES**	**YES**	**YES**	**YES**
USER	**YES**	**YES**	**YES**	**YES**

Figure 6-1: History information

Detailed description of the information being recorded is shown below:

Information	Description	Example
COMMAND	Name of SEZAM command which was executed	EX
DATE	Date when the event took place in the DD/MM/YYYY format	2003-08-08
ENVIRONMENT	Name of environment where the current event took place	DB001
EXTENDED INFORMATION	Detailed information about the function / utility being processed: - the executed Adabas/Natural program - the modified Sezam system object: <type-of-modification> source-object <target-object> - the executed Sezam utility with the number of modified system objects	ADAORD REORFASSO, ADAREP, ERRLODUS
FILES	List of ADABAS files, which were accessed in the current event: <file_number> - real file number 99999 - logical file number, indicates that the total number of files is more than 50	133, 177
JCL	Up to 300 lines of JCL / REXX which was involved in the corresponding event	//KSMFAREP JOB . . .
JOB LOCATION	Location of the job being processed within the current event: Object - NATURAL object Area - NATURAL source area Saved - SEZAM saved area H.... - SEZAM history record: <user><YYYYMMDD><HH:MM:SS> Exec - directly executed with 'EX' command	Area(KSM/SJDUMMY)
TIME	Time when the event took place in the HH:MM:SS.0 format	17:04:41.9
USER	Name of SEZAM user who has initiated the current event	KSM

The information provided by the history facility allows DBA to control and regenerate the events and their sequence within SEZAM. The use of history facility simplifies the database administration and makes it possible to find out who, when and what has done.

SEZAM allows dynamically customizing of the history facility including it's activation and deactivation. For more information about this service consult *SEZAM Installation Manual.*

To invoke the SEZAM history maintenance, enter on SEZAM Maintenance menu (Fig. 3-3) in the „Function“ field the corresponding number of the „History records maintenance“ function:

```
     3 - History records maintenance
```

All history maintenance functions can be processed from the screen, which is shown in Figure 6-2.

```
15:50:56 ------------------ History maintenance ------------------- 2003-08-12
 Command ===>

 CM - Command help
.............................................................................


 Enter the history processing parameters:

   Function           ===> L
   Record type        ===> A
   Search limit       ===> 0____

   Starting from date ===> 2003-08-12
   Ending at date     ===> 2003-08-12







Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Defaults
```

Figure 6-2: History Maintenance Screen

List Records

To list the history records for a given period of time do the following:

Enter L(LIST RECORDS) on the history maintenance screen (Fig. 6-2):

```
Function          ===> L
```

Specify type of the history records (Fig. 6-2):

```
Record type       ===> A
```

S - system records
U - user records
A - all records

Specify maximum number of records found before the list function is terminated. (Fig. 6-2):

```
Search limit      ===> 0
```

If 'zero' is specified the search is unlimited. The parameter is ignored unless the extended processing routine is specified

Enter on the history maintenance screen (Fig. 6-2) the time period:

```
Starting from date ===> 2003-08-11
Ending at date     ===> 2003-08-12
```

All the records for the given criteria are shown in Figure 6-3.

After successfully processing the following message is displayed:

SEZ0136: History records listed successfully

```
16:03:08 ----------- History maintenance / Record list ------------ 2003-08-12
 Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.....................................................................
 Co Env.       CM  User     Extended             Files Jcl  Date       Time
                           Information
 -- ---------- --- -------- -------------------- ----- UNDF ---------- -------
 __ SYSTEM EN  GRS KSM      ED(F13000,EX NATURAL       No   2003-08-11 08:45
 __ SYSTEM EN  GRS KSM      ED(F13000,NATPARM)         No   2003-08-11 08:46
 __ SYSTEM EN  GRS KSM      ED(F13000,NATPARM)         No   2003-08-11 08:46
 __ F13000     SU  KSM      ADARUN PROG=USER           Yes  2003-08-11 08:47
 __ SYSTEM EN  GRS KSM      ED(F13000,INPL)            No   2003-08-11 08:50
 __ SYSTEM EN  GRS KSM      ED(F13000,INPL)            No   2003-08-11 08:50
 __ F13000     SU  KSM      ADARUN PROG=USER           Yes  2003-08-11 08:51
 __ F13000     SU  KSM      ADARUN PROG=USER           Yes  2003-08-11 08:52
 __ F13000     EX  KSM      ADASAV SAVE FILES    812   Yes  2003-08-11 08:56
 __ F13000     EX  KSM      ADASAV RESTORE FMOVE 812   Yes  2003-08-11 08:57
                                                  Search limit ===> 0____
 Total records ===> 10                           Starting from ===> 2003-08-11
 Record type   ===> All                              Ending at ===> 2003-08-12
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr  JclF             +
```

Figure 6-3: Record List Screen

To be able to seek in the JCL / REXX lines of code, use the PF5 function key on the Record List Screen (Fig. 6-3).

Delete Records

To delete the history records for a given time period perform the following steps:

Enter D(DELETE RECORDS) on the history maintenance screen (Fig. 6-2):

```
Function          ===> D
```

Specify type of the history records being deleted (Fig. 6-2):

```
Record type       ===> A
```

S - system records
U - user records
A - all records

Enter on the history maintenance screen (Fig. 6-2) the time period:

```
Starting from date ===> 2003-08-11
Ending at date     ===> 2003-08-12
```

Confirm delete of the records with „DELETE ALL“ (Fig. 6-4).

After successfully processing the following message is displayed:

SEZ0138: History records deleted successfully

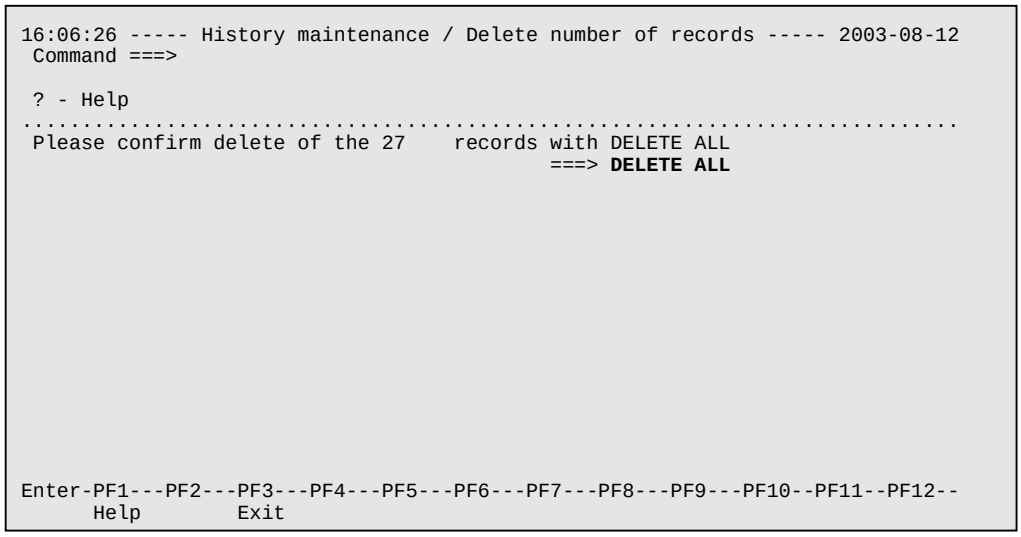

16:06:26 ----- History maintenance / Delete number of records ----- 2003-08-12
Command ===>
? - Help
Please confirm delete of the 27 records with DELETE ALL
===> DELETE ALL
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
Help
Exit

Figure 6-4: Delete Number of Records Screen

Browse Single Record

To view the detailed information contained in the history record execute the following:

Enter BR(BROWSE RECORD) as line command in the „Co“ field against the appropriate history record on the screen shown in Figure 6-3.

The history information contained in the selected record is shown in Figure 6-5.

After successfully processing the following message is displayed:

SEZ0135: History record browsed successfully

```
16:12:37 ----------- History maintenance / Browse record ---------- 2003-08-12
 Command ===>

 CM - Command help
.....................................................................
   Environment     ===> F13000                     User ===> KSM
   Sezam command   ===> EX                        Date ===> 2003-08-11
   Jcl             ===> Yes                       Time ===> 08:57:35.7
   Extended info.  ===> ADASAV RESTORE FMOVE

   Job location    ===> Exec
   Natural info.   ===>

   File list  ===> 812
                   902







Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit        Jcl
```

Figure 6-5: Browse Record Screen

To browse, or modify the JCL / REXX lines of code, press the PF5 function key. For more information refer to the section *History Job Processing.*

Delete Single Record

To delete the history records one by one, execute the following:

Enter DE(DELETE RECORD) as line command in the „Co“ field against the appropriate history record on the screen shown in Figure 6-3.

Confirm delete of the record with „DELETE“ (Fig. 6-6).

After successfully processing the removed record disappears from the list of history records (Fig. 6-3) and the following message is displayed:

SEZ0134: History single record deleted successfully

```
16:20:11 ----------- History maintenance / Delete record ---------- 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 The following record will be deleted:
   Environment     ===> F13000                      User ===> KSM
   Command         ===> EX                          Date ===> 2003-08-11
   Jcl             ===> Yes                         Time ===> 08:57:35.7
   Extended info.  ===> ADASAV RESTORE FMOVE

   Job location    ===> Exec
   Natural info.   ===>
   File list  ===> 812
                   902




 Please confirm delete with the word DELETE
                              ===> DELETE
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit        Jcl
```

Figure 6-6: Delete Record Screen

The record can also be deleted with the direct command 'DE' (Delete Record) issued on the JCL Browse Screen (Fig. 6-7), or the JCL Modify Screen (Fig. 6-8). For more information refer to the section *History Job Processing.*

Job Processing

To browse, modify, re-submit or export the job stored in the history records, execute the following:

Enter JC(PROCESS JOB) as line command in the „Co“ field against the corresponding history record on the screen shown in Figure 6-3.

The JCL / REXX contained in the selected record is shown in Figure 6-7.

To invoke the built-in editor and process the job modification, press the PF5 function key.

Successfully processing is indicated by one of the following messages:

SEZ0347: History JCL browsed successfully
SEZ0348: History JCL browsed partially

```
16:38:04 ----------- History maintenance / Browse JCL ------------- 2003-08-12
 Command ===>                                                 SCROLL ===> PAGE

 CM - Command help
.....................................................................
 User  ===> KSM                                          Date ===> 2003-08-11
 Total ===> 25  / 25                                     Time ===> 08:56:09.8

 0001 //KSMFASAV JOB (,,,999),'KSM',CLASS=W,MSGCLASS=X
 0002 //* SEZ312:F13000-ADASAV(Save files)-FILE(812)
 0003 //* SEZENV=F13000
 0004 /*ROUTE XEQ DAEF
 0005 /*JOBPARM SYSAFF=DAEF
 0006 /*ROUTE PRINT DAEF
 0007 //SEZADA EXEC PGM=ADARUN,REGION=8000K,TIME=1440
 0008 //STEPLIB  DD DSN=RZDBA.DB13000.NEWLOAD,DISP=SHR
 0009 //         DD DSN=RZDBA.DB13000.LOAD,DISP=SHR
 0010 //DDASSOR1 DD DSN=DB13000.ASSOR1,DISP=SHR
 0011 //DDDATAR1 DD DSN=DB13000.DATAR1,DISP=SHR
 0012 //DDWORKR1 DD DSN=DB13000.WORKR1,DISP=SHR
     ----+---010---+---020---+---030---+---040---+---050---+---060---+---070--
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit        Modify            +
```

Figure 6-7: Browse JCL Screen

To re-submit the job directly from the history facility, enter the SU(SUBMIT JOB) direct command on the screen Fig. 6-7.

To export the job stored in the history records to the NATURAL text object, enter the direct XP(EXPORT) command on the screen Fig. 6-7.

7. Parameter's List Maintenance

This facility makes possible to show the user's activity in the parameter's list area and to perform the maintenance commands. For more information about parameter's lists consult *SEZAM User's Manual.*

To invoke the SEZAM parameter's list maintenance, enter on the SEZAM Maintenance menu (Fig. 3-3) in the „Function" field the corresponding number of the „Parameter's list maintenance" function:

```
     4 - Parameter's list maintenance
```

The list of parameter's list owners will be shown in the short format (Fig. 7-1).

```
 16:46:25 --------- Parameter's list maintenance / List ------------ 2003-08-12
 Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.....................................................................
 Co    User         User       User       Quantity
       Name         Type       Status
 --    --------     ------     ------     ---------
 __    FHI          M          A          1
 __    HEB          M          A          2
 __    JNM          A          A          726
 __    KSM          A          A          1754
 __    KSM1         M          A          12
 __    MEN          M          A          1
 __    MTA          P          A          1
 __    SAC          A          A          5
 __    SAGHWS       M          A          4
 __    SAL          A          A          725

 Total records ===> 10

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refresh                +                Full
```

Figure 7-1: Parameter's List Screen / Short Format

The information shown in Figure 7-1 includes the following:

Information	**Description**
QUANTITY	Number of parameter's lists for a current user
USER NAME	User name
USER TYPE	User's type: A/M/E/P - administrator/manager/expert/person - - user not exist
USER STATUS	Current user status: A - user exists in SEZAM (is active) N - user does not exist

The following commands can be processed from this screen (Fig. 7-1):

Command	Description
CH	Update parameter's lists by user
DE	Delete parameter's lists by user

Pressing PF11 on the screen (Fig. 7-1) causes switch to the full format (Fig. 7-2).

```
16:50:08 ------- Parameter's list maintenance / List names -------- 2003-08-12
 Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.............................................................................
 User name ===> KSM

 Co  Parmlist name              Quantity
 --  -------------------------  ---------
 __  A...                       1
 __  AERXXX AERLOD              1
 __  AERXXX AERULD              1
 __  ATM-SYSFILE                1
 __  A001                       12
 __  A001(INCREASE)             2
 __  A012                       5
 __  A014                       11
 __  A014-FUSER-2               1
 __  A016                       3

 Total records ===> 10
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refresh                +                Short
```

Figure 7-2: Parameter’s List Screen / Full Format

The information shown in Figure 7-1 includes the following:

Information	Description
PARMLIST NAME	Parameter's list name
QUANTITY	Number of parameter’s lists with the given name
USER NAME	User name

The following commands can be processed from this screen (Fig. 7-2):

Command	Description
CO	Copy parameter's lists by name
DE	Delete parameter's lists by name
RE	Rename of parameter's lists by name

Copy Parameter's Lists By User

This command is used to copy all owner's parameter's lists to the other user. The owner of the parameter's lists and the target user must be defined with the same user's type. To perform copy execute the following:

Enter CO(COPY PARMLIST) as line command in the „Co“ field against the selected parameter's list's name (Fig. 7-1).

Enter source and target parameter's list owner's names and specify the Replace option (Fig. 7-3).

After successfully processing the following message is displayed:

SEZ0299: Parameter list(s) copied successfully

```
16:58:17 --------- Parameter's list maintenance / Copy ------------ 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 Enter source and target parameter's list names:

   Source parmlist name ===> A001_____________________

   Target parmlist name ===> X001_____________________

   Replace ===> N









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 7-3: Copy Parameter's Lists By User Screen

Delete Parameter's List By User

This command can be applied against the parameter's lists of the not existed users, or of the owner's parameter's lists. To delete all parameter's list of the given user execute the following:

Enter DE(DELETE PARMLIST) as line command in the „Co" field against the corresponding user on the parameter's list screen (Fig. 7-1).

Confirm delete of all the parameter's lists for selected user with the user's name (Fig. 7-4).

After successfully processing the removed entry disappears from the list shown in Fig. 7-1 and the following message is displayed:

SEZ0123: Parameter list(s) deleted successfully

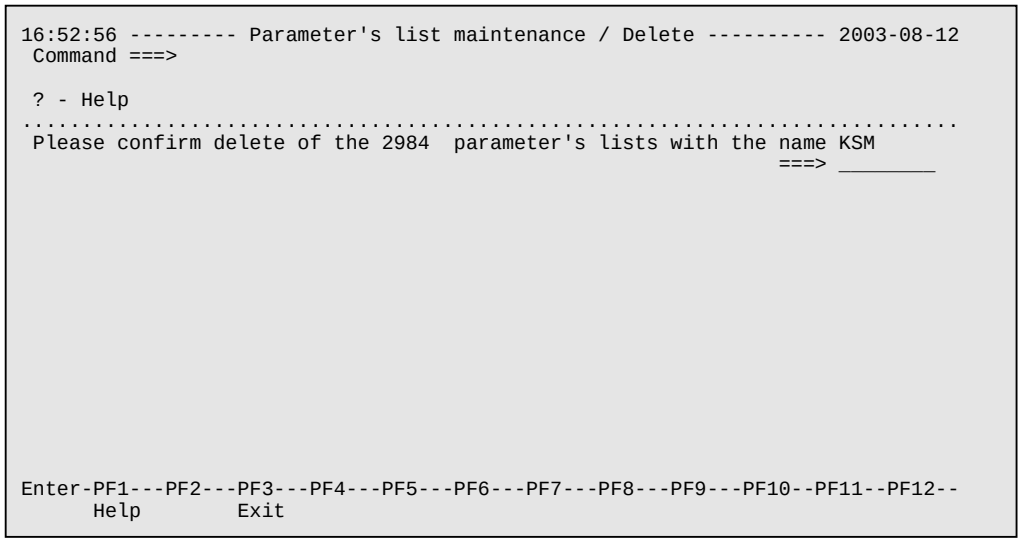

16:52:56 --------- Parameter's list maintenance / Delete ---------- 2003-08-12
Command ===>
? - Help
Please confirm delete of the 2984 parameter's lists with the name KSM
===> _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
Help Exit

Figure 7-4: Delete Parameter's Lists By User Screen

Modify Parameter's List By User

This command is used to perform mass update (scan and replace) of the all parameter's lists of the given user. To perform update execute the following:

Enter SC(MASS UPDATE PARMLIST) as line command in the „Co“ field against the corresponding user on the parameter’s list screen (Fig. 7-1).

Enter the scan/replace criteria and confirm mass update with owner’s name (Fig. 7-5).

After successfully processing the one of the following messages is displayed:

SEZ0288: Parmlist searched. 1 record(s) found
SEZ0282: Parmlist changed successfully. 1 record(s) replaced

```
13:15:52 --------- Parameter's list maintenance / Change ---------- 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 Please confirm modification of the 12    parameter's lists
 with the name KSM1
          ===> KSM1____




 Enter the parameter's list values:

 Scan value
 ===> F177_____________________________________________________________________

 Replace value
 ===> Q177_____________________________________________________________________


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 7-5: Mass Update Parameter’s Lists Screen

Copy Parameter's Lists By Name

This command is used to copy the owner's parameter's lists with the given name to the other user. The owner of the parameter's lists and the target user must be defined with the following user's types:

Owner	Target user
A	A
M	A, M
E	A, M, E
P	A, M, E, P

To perform copy execute the following:

Enter CO(COPY PARMLIST) as line command in the „Co" field against the selected parameter's list's name (Fig. 7-2).

Enter source and target parameter's list names and specify the target user name (Fig. 7-6).

After successfully processing the following message is displayed:

SEZ0299: Parameter list(s) copied successfully

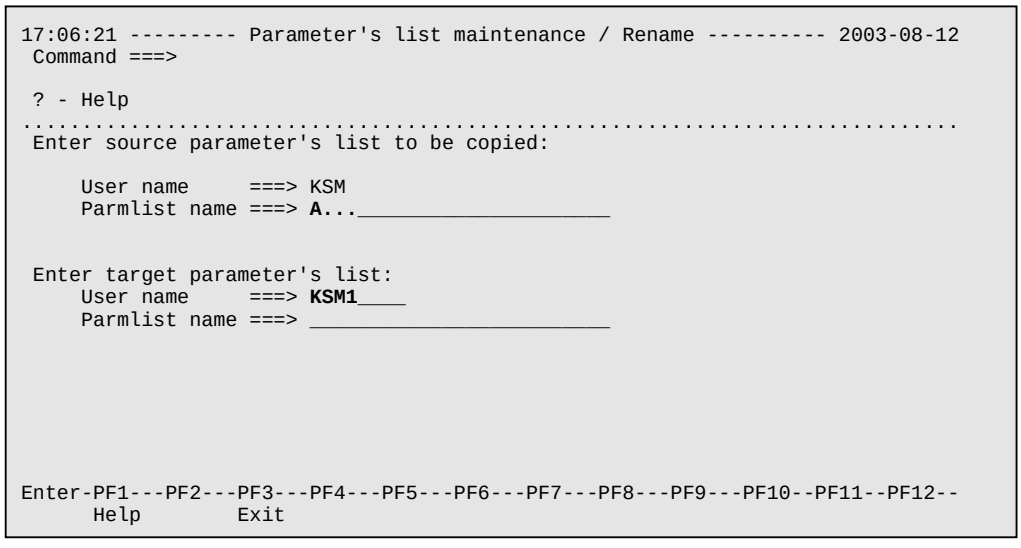


Figure 7-6: Copy Parameter's Lists By Name Screen

Delete Parameter's Lists By Name

This command is used to delete all owner's parameter's lists with the given name. To perform delete execute the following:

Enter DE(DELETE PARMLIST) as line command in the „Co“ field against the selected parameter’s list's name (Fig. 7-2).

Confirm delete of the parameter’s lists with parameter's list's name (Fig. 7-7).

After successfully processing the removed entry disappears from the list shown in Fig. 7-2 and the following message is displayed:

SEZ0123: Parameter list(s) deleted successfully

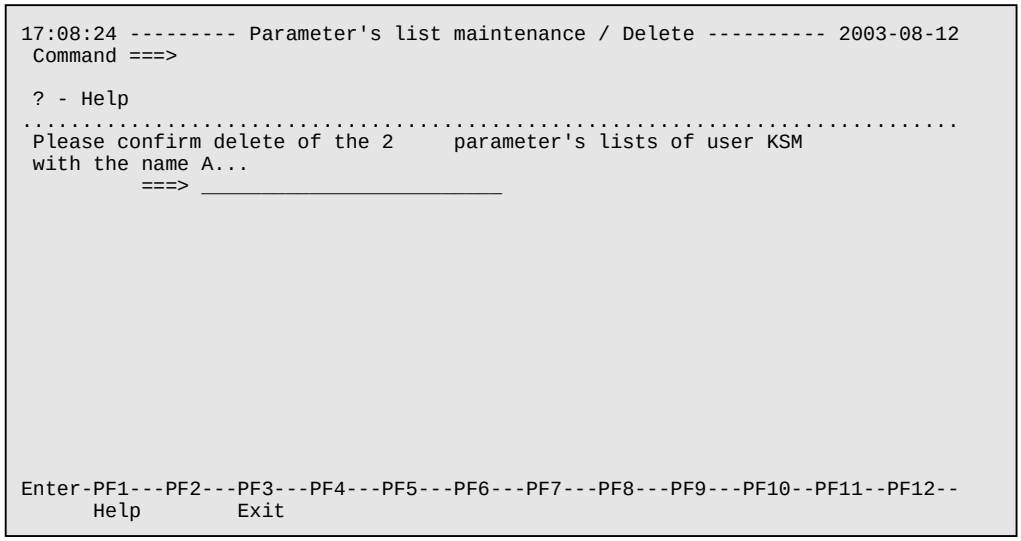

17:08:24 --------- Parameter's list maintenance / Delete ---------- 2003-08-12
Command ===>
? - Help
Please confirm delete of the 2 parameter's lists of user KSM
with the name A...
===> _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
Help Exit

Figure 7-7: Delete Parameter’s Lists By Name Screen

Rename Parameter's Lists By Name

This command is used to rename all owner's parameter's lists with the given name or with the names starting with the given name (prefix) to the different name. To perform rename execute the following:

Enter RE(RENAME PARMLIST) as line command in the „Co“ field against the selected parameter’s list's name (Fig. 7-2).

Enter source and target parameter's list names (Fig. 7-8).

Enter operation mode (Fig. 7-8):
- STD - standard mode. Parameter’s lists with the specified name are processed
- PRE - prefix mode. Parameter’s lists with the specified prefix are processed

After successfully processing the removed entry disappears from the list shown in Fig. 7-2 and the following message is displayed:

SEZ0339: Parameter list(s) renamed successfully

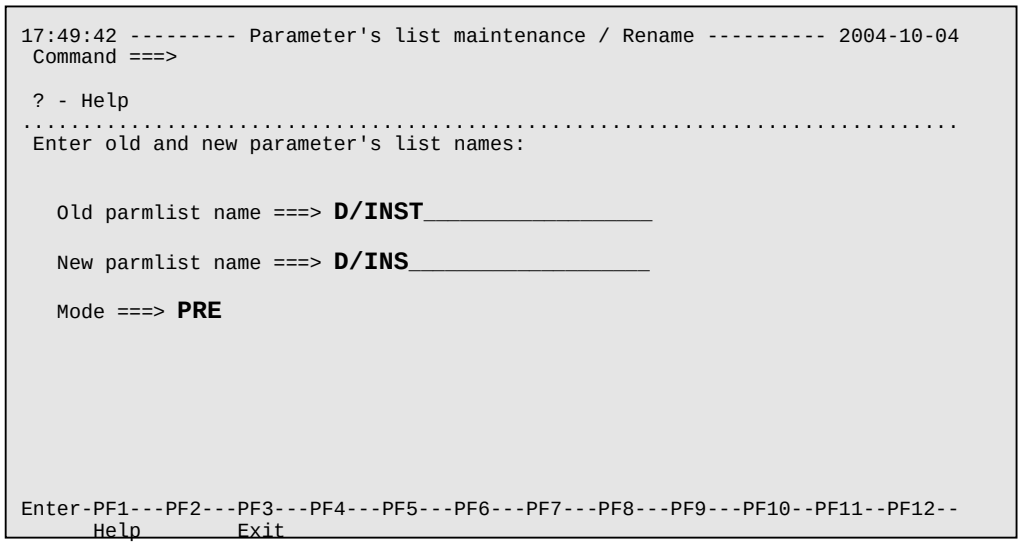

17:49:42 --------- Parameter's list maintenance / Rename ---------- 2004-10-04
Command ===>
? - Help
Enter old and new parameter's list names:
Old parmlist name ===> D/INST
New parmlist name ===> D/INS
Mode ===> PRE
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
Help Exit

Figure 7-8: Rename Parameter’s Lists By Name Screen

8. Saved Job Maintenance

This facility makes possible to store the jobs of common use in the separate area of SEZAM. It allows to increase the performance by reducing the total number of execution of GN(GENERATE JCL) command.

Every saved job can be executed directly from the Saved Area of SEZAM. The use of the saved job can be restricted by the data/time of execution and/or by people. It can be very convenient to grant, as an exception, the execution of some ADABAS/NATURAL utility to the user who is normally not authorised for it.

Regardless of the restrictions every saved job can be processed by Administrator.

To invoke the SEZAM saved job maintenance, enter on the SEZAM Maintenance menu (Fig. 3-3) in the „Function“ field the corresponding number of the „Saved job maintenance“ function:

```
     5 - Saved job maintenance
```

The list of all already created saved jobs will be shown (Fig. 8-1).

```
17:13:48 ----------- Saved job maintenance / Jobs list ------------ 2003-08-12
 Command ===>                                                SCROLL ===> PAGE

 CM - Command help                                        Library ===> KSM
                                                           Object ===> DUMMY_
.....................................................................................

 Co Job name         Owner    Job description       User   A D L R S Date
 -- ---------------- -------- --------------------- ------ - - - - - ----------
 __ $A-BS2000/1                                             A D U R O 2003-03-20
 __ $A-BS2000/2                                             A D U R O 2002-12-11
 __ $A-VM            KSM                                    A D U N O 2003-07-10
 __ $A-VSE                                                  A D U R O 2002-12-11
 __ $AER-AERULD              ENTIRE DB AERULD...            A K U R O 2001-02-26
 __ $AER-LOAD                ENTIRE DB AERLOD...            A K U R O 2001-02-26
 __ $CST431-CSFLOAD          LOAD UPDATED CODE...           A K U R O 2001-02-26
 __ $CST431-CSHLOAD          LOAD UPDATED HELP...           A K U R O 2002-12-11
 __ $CST431-CSMLOAD          LOAD UPDATED MODELS            A K U R O 2001-02-26
 __ $CST431-CVHELP           CONVERT EXISTING H...          A K U R O 2001-02-26

 Total records ===> 10
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr                   +
```

Figure 8-1: Saved Jobs List Screen

The information shown in Figure 8-1 includes the following:

Information	Description
ALLOWED USER	List of the users who are authorised to execute the job (up to 8 bytes)
DATE	Date of the last modification
JOB NAME	Name of saved job
JOB DESCRIPTION	Description of saved job
OWNER	Name of the job's owner. If the dynamic translation takes place, the translation table of the owner is activated
STATUS-A	Active Status: A - job can be submitted E - job can not be submitted, date/time restrictions are expired
STATUS-D	Disposition: D - job will be deleted after submit K - job will be kept
STATUS-L	Lock Status: L - job is locked and can not be submitted U - job is unlocked
STATUS-R	Restriction Status: R - job is time/people restricted. Job can be processed only by authorised persons and/or only within the defined date/time N - job is unrestricted
STATUS-S	Submit Status: O - job is open, i.e. has not been submitted S - job was submitted
TOTAL RECORDS	Total number of the saved jobs

Create Saved Job

To create the saved job generate the JCL with GN(GENERATE JCL) command from the ADABAS/NATURAL functional screen and perform the following steps:

Enter CR(CREATE JOB) as direct command in the „Command“ field (Fig. 8-1).

Enter parameters of the job being created (Fig. 8-2):

Parameter	Description
SOURCE JOB NAME	Name of the NATURAL object which contains the correct JCL
TARGET JOB NAME	Name of the saved job
DESCRIPTION	Description of the saved job
DISPOSITION	Disposition of the saved job: D - delete after submit K - keep
RESTRICTION	Restriction of the saved job: R - job is restricted N - job is unrestricted

For restricted jobs press PF5 and make the following:

° enter restriction values of the job being created (Fig. 8-3):

Parameter	Description
DATE FROM/TO	Date after/before which the job can be submitted: YYYY-MM-DD - date blank - not defined
TIME FROM/TO	Time after/before which the job can be submitted: HH:MM - time blank - not defined
DATE/TIME EXCEPT	Sequence of date/time restrictions processing: Y - rejects the jobs which satisfy the restrictions N - accepts the jobs which satisfy the restrictions
EXCLUSIVE/BROWSE	Exclusive rights of job’s submitting/browse: Y - only administrators can submit/view the job
USER LIST	Names of the users (up to 10) who are authorised to submit the current job, blank - all the users

° on the restrictions screen (Fig. 8-3) press PF6 to accept the restrictions

After successfully processing the following message is displayed:

SEZ0191: Restrictions accepted successfully

° press PF3 to return to the create job screen

On the create job screen (Fig. 8-2) press ENTER to create the job and confirm job creation (Fig. 8-4).

After successfully processing the created job appears in the list of the saved jobs (Fig. 8-1) and following message is displayed:

SEZ0193: Job created successfully

```
15:25:03 ---------- Saved jobs maintenance / Create job ------------ 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 Enter job to be captured (source):
   Job name    ===> JCL001

 Enter parameters of the saved job (target):
   Job name    ===> SYSMAIN_________
   Description ===> COPY PROGRAMS MUB22 TO MUB22_
   Disposition ===> D
   Restriction ===> R









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit        Restrict
```

Figure 8-2: Create Job Screen

```
13:56:43 ------- Saved jobs maintenance / Enter restrictions ------ 2003-08-12
Command ===>

 ? - Help
.............................................................................
 Job name        ===> DAEF-00009-ASAV
 Job description ===> DAEF-00009 ADASAV

 Enter restriction values:

  Date                           Time
   Except ===> _                  Except ===> _
   From   ===> __________         From   ===> 08:00
   To     ===> __________         To     ===> 09:00

  Exclusive  ===> Y
  Browse     ===> _

  User list: ===> ________ / ________ / ________ / ________ / ________
                  ________ / ________ / ________ / ________ / ________

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit              Accept
```

Figure 8-3: Enter Restrictions Screen

```
13:58:57 ---------------- Create job confirmation ----------------- 2003-08-12
Command ===>

? - Help
.............................................................................
Environment F177   Program ADASAV SAVE


The job processed successfully and saved job will be created

Please confirm creating with Y
                         ===> Y









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 8-4: Create Job Confirmation Screen

Browse Saved Job

To browse the saved job perform the following steps:

Enter BR(BROWSE JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job.

If the command was entered as direct command enter the name of the job which contents have to be browsed (Fig. 8-5).

The contents of the saved job together with some additional information will be shown (Fig. 8-6):

Information	Description
Job	Name of saved job
Desc	Description of the current saved job
Rest	Restriction status of the current saved job
Disp	Disposition of the current saved job
Total	Total number of the strings in the current job

For restricted jobs press PF5 to browse through restrictions of the current saved job (Fig. 8-7).

After successfully processing the following message is displayed:

SEZ0175: Job browsed successfully

```
16:01:09 ---------- Saved jobs maintenance / Browse job ------------ 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 Enter job to be browsed:
   Job name    ===> SYSMAIN_________









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 8-5: Example of Enter Job Name Screen

```
16:05:15 ----------- Saved job maintenance / Browse job ------------ 2003-08-12
 Command ===>                                                SCROLL ===> PAGE

 ? - Help
.............................................................................
 Job SYSMAIN           Desc COPY PROGRAMS MUB22 TO MUB22    Rest R  Disp D
 Total 29                                                       Owner
 1    * $$ JOB JNM=NSMAE1,CLASS=Z,SYSID=6,DISP=D
 2    * $$ LST CLASS=Q,FNO=A03U
 3    // JOB NSMAE1 (SOK),'DB-ADMINISTRATOR'
 4    * SEZAM 1.0:EW1-USER(SYSMAIN/CO programs)-FromTo(MUB22,MUB22)
 5    // ASSGN   SYS000,READER
 6    // EXEC    PGM=NAT22XBA,SIZE=NAT22XBA,PARM='SYSRDR'
 7    IM=D,MADIO=0,MAXCL=0,MT=0,OBJIN=R,AUTO=OFF,DC='.',DTFORM=I
 8    ID=',',USIZE=64,ESIZE=100,MCG=OFF,DBID=241,ETID=1
 9    /*
 10   ADARUN PROG=USER
 11   ADARUN MODE=MULTI
 12   ADARUN DBID=241
 13   ADARUN SVC=45
      ----+---010---+---020---+---030---+---040---+---050---+---060---+---070-
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit        Restrict          +
```

Figure 8-6: Browse Saved Job Screen

```
14:18:31 ------- Saved jobs maintenance / Browse restrictions ------ 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 Job name        ===> SYSMAIN
 Job description ===> COPY PROGRAMS MUB22 TO MUB22

 Restriction values:

  Date                          Time
   Except ===>                   Except ===> N
   From   ===>                   From   ===> 08:00
   To     ===>                   To     ===> 09:00

  Exclusive  ===>

  User list: ===> BRB      /          /          /          /
                           /          /          /          /


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 8-7: Browse Restrictions Screen

Display System Information

To browse the system information of the saved job execute the next steps:

Enter SY(DISPLAY SYSTEM INFORMATION) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job. The SY direct command can also be issued on the Browse Saved Job Screen (Fig. 8-6) , or on the Modify Saved Job Screen (Fig. 8-9).

If the command was entered as direct command enter the name of the job system information of which have to be browsed (Fig. 8-5).

The following system information will be displayed (Fig. 8-8):

Information	Description
Job	Name of saved job
Description	Description of the current saved job
Owner	Job's owner's name
Status	Current status of the saved job
Created	Date of creation together with the name of the user who has created the current saved job
Modified	Date of last modification together with the name of the user who has modified the job
Locked	Date of putting the job in the lock status together with the name of the user who has locked the current saved job
Submitted	Date of last submit together with the name of the user who has submitted the job

After successfully execution the following message is displayed:

SEZ0201: Job's sysinfo browsed successfully

```
14:03:06 -------- Saved job maintenance / System information ------ 2003-08-12
 Command ===>

 ? - Help
.....................................................................
 Job         ===> $ADA-ADASAV                        Created:
 Description ===> ADASAV TWOCOPIES TO VTS1             Date ===> 2000-08-24
 Owner       ===>                                      User ===> KSM

 Status:
   Acive       ===> Active                           Modified:
   Disposition ===> Keep                               Date ===> 2000-11-18
   Locked      ===> Unlocked                           User ===> KSM
   Restriction ===> Restricted
   Submit      ===> Open                             Locked:
                                                       Date ===>
                                                       User ===>

                                                     Submitted:
                                                       Date ===>
                                                       User ===>

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 8-8: System Information Screen

Modify Saved Job

To modify the saved job take the following steps:

Enter ED(EDIT JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job. The ED direct command can also be issued on the Browse Saved Job Screen (Fig. 8-6).

If the command was entered as direct command enter the name of the job which contents have to be modified (Fig. 8-5).

Change the contents of the job together with job’s description and disposition (Fig. 8-9). The following information is shown:

Information	Description
Job	Name of saved job
Desc	Description of the current saved job
Rest	Restriction status of the current saved job
Disp	Disposition of the current saved job
Total	Total number of the strings in the current job

To modify the restrictions press PF5 and make the following:

° enter restriction values of the job being created (Fig. 8-3):

Parameter	Description
DATE FROM/TO	Date after/before which the job can be submitted in the following format: YYYY-MM-DD - date blank - not defined
TIME FROM/TO	Time after/before which the job can be submitted in the following format: HH:MM - time blank - not defined
DATE/TIME EXCEPT	Sequence of date/time restrictions processing: Y - rejects the jobs which satisfy restrictions N - accepts the jobs which satisfy restrictions
USER LIST	Names of users (up to 10) who are authorised to submit the current job, blank - all the users

° on the restrictions screen (Fig. 8-3) press PF6 to accept the restrictions

After successfully processing the following message is displayed:

SEZ0191: Restrictions accepted successfully

° press PF3 to return to the modify job screen

On the modify job screen (Fig. 8-9) press ENTER to accept the job's modifications.

After successfully processing the following message is displayed:

SEZ0179: Job modified successfully

```
16:01:44 ----------- Saved job maintenance / Edit job -------------- 2003-08-12
 Command ===>                                                SCROLL ===> PAGE

 ? - Help
.............................................................................
 Job SYSMAIN           Desc COPY PROGRAMS MUB22 TO MUB22__  Rest N  Disp D
 Total 29                                                     Owner ________
 1    * $$ JOB JNM=NSMAE1,CLASS=Z,SYSID=6,DISP=D_____________________________
 2    * $$ LST CLASS=Z,FNO=A03U_______________________________________________
 3    // JOB NSMAE1 (SOK),'DB-ADMINISTRATOR'_____________________________________
 4    * SEZAM 2.0:EW1-USER(SYSMAIN/CO programs)-FromTo(MUB22,MUB22)____________
 5    // ASSGN   SYS000,READER_____________________________________________
 6    // EXEC    PGM=NAT22XBA,SIZE=NAT22XBA,PARM='SYSRDR'_____________________
 7    IM=D,MADIO=0,MAXCL=0,MT=0,OBJIN=R,AUTO=OFF,DC='.',DTFORM=I_______________
 8    ID=',',USIZE=64,ESIZE=100,MCG=OFF,DBID=241______________________________
 9    /*_______________________________________________________________________
 10   ADARUN PROG=USER________________________________________________________
 11   ADARUN MODE=MULTI_______________________________________________________
 12   ADARUN DBID=241_________________________________________________________
 13   ADARUN SVC=45___________________________________________________________
      ----+---010---+---020---+---030---+---040---+---050---+---060---+---070--
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit        Restrict          +
```

Figure 8-9: Modify Saved Job Screen

Put Saved Job

With combination of PUT/GET commands it is possible to modify the saved jobs not only in-place. To realise this possibility it is necessary to put the saved job from the SEZAM Saved Area into the NATURAL text object, modify its contents with the NATURAL editor and get the job to the Saved Area back.

After putting the job into the NATURAL object the saved job remains in the locked status. It is not possible to modify or submit the locked job. Successfully processing of the GET command unlocks the saved job automatically.

To put the saved job into the NATURAL object execute the followings:

Enter PU(PUT JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job.

Enter the name of the job which have to be put into the NATURAL object together with the name of the corresponding NATURAL object (Fig. 8-10):

Parameter	Description
SOURCE JOB NAME	Name of the saved job
TARGET JOB NAME	Name of the NATURAL object where the saved job must be put

Confirm processing (Fig. 8-11)

After successfully processing the saved job will be placed in the locked status.

```
14:05:52 ---------- Saved jobs maintenance / Put job -------------- 2003-08-12
Command ===>

 ? - Help
.............................................................................
 Enter saved job to be put (source):
   Job name    ===> $ADA-ADASAV_____


 Enter the target job:
   Job name    ===> JCL003









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 8-10: Put Saved Job Screen

```
14:04:54 ------------------- Put job confirmation ----------------- 2003-08-12
Command ===>

? - Help
.............................................................................
Environment F164   Program ADASAV SAVE


The job processed successfully and job will be overwritten

Please confirm putting with Y
                       ===> Y









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 8-11: Put Saved Job Confirmation Screen

Get Saved Job

To get the saved job from the NATURAL text object execute the followings:

Enter GE(GET JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the corresponding locked job, i.e. against the job previously processed with the PU(PUT JOB) command.

Enter the name of the job which have to be got from the NATURAL objects together with the name of the corresponding NATURAL object (Fig. 8-12):

Parameter	Description
SOURCE JOB NAME	Name of the NATURAL object from where the saved job must be got
TARGET JOB NAME	Name of the saved job in the locked status

Confirm processing (Fig. 8-13)

After successfully processing the saved job is be unlocked and the following message is displayed:

SEZ0338: Job captured successfully

```
14:07:26 ---------- Saved jobs maintenance / Get job -------------- 2003-08-12
Command ===>

 ? - Help
.............................................................................
 Enter job to be captured (source):
   Job name    ===> JCL003


 Enter parameters of the saved job (target):
   Job name    ===> $ADA-ADASAV_____









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 8-12: Get Saved Job Screen

```
14:08:16 ------------------- Get job confirmation ----------------- 2003-08-12
Command ===>

? - Help
.............................................................................
Environment F164   Program ADASAV SAVE


The job processed successfully and saved job will be overwritten

Please confirm getting with Y
                       ===> Y









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 8-13: Get Saved Job Confirmation Screen

Copy Saved Job

To copy the contents of the saved job together with its restrictions (if any) from one saved job to another execute the followings:

Enter CO(COPY JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job. The CO direct command can also be issued on the Browse Saved Job Screen (Fig. 8-6) , or on the Modify Saved Job Screen (Fig. 8-9).

Enter the source and target job names (Fig. 8-14):

Parameter	Description
SOURCE JOB NAME	Name of the saved job to be copied
TARGET JOB NAME	Name of the saved job, where the saved job must be copied

After successfully processing the new job appears in the list of all saved jobs (Fig. 8-1) and the following message is displayed:

SEZ0230: Job copied successfully

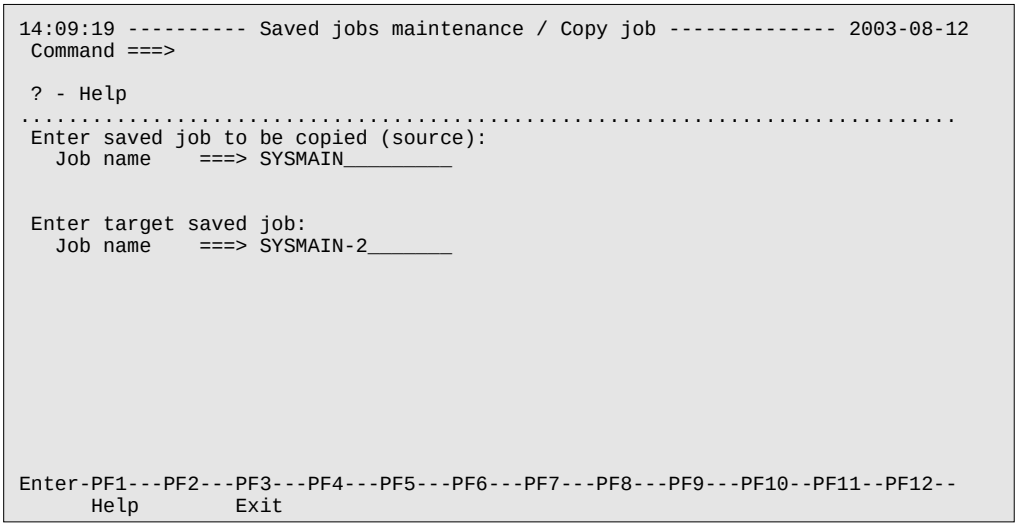

14:09:19 ---------- Saved jobs maintenance / Copy job -------------- 2003-08-12
Command ===>
? - Help
Enter saved job to be copied (source):
Job name ===> SYSMAIN_____
Enter target saved job:
Job name ===> SYSMAIN-2_____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
Help Exit

Figure 8-14: Copy Saved Job Screen

Rename Saved Job

To change the name of the saved job execute the followings:

Enter RE(RENAME JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job.

Enter the old and new job names (Fig. 8-15):

Parameter	Description
OLD JOB NAME	Name of the saved job being renamed
NEW JOB NAME	New name of the saved job

After successfully processing the new job appears in the list of the all jobs (Fig. 8-1) instead of the old one and the following message is displayed:

SEZ0235: Job renamed successfully

```
14:26:07 ---------- Saved jobs maintenance / Rename job ------------ 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 Enter saved job values:
   Old job name ===> SYSMAIN_________
   New job name ===> SYSMAIN-NEW_____









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 8-15: Rename Saved Job Screen

Submit Saved Job

To submit the saved job to the operating system for execution perform the following:

Enter SU(SUBMIT JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job. The SU direct command can also be issued on the Browse Saved Job Screen (Fig. 8-6), or on the Modify Saved Job Screen (Fig. 8-9).

If the command was entered as direct command enter the name of the job being submitted (Fig. 8-5).

Confirm submitting of the saved job to the operating system (Fig. 8-16).

After successfully execution the following message is displayed:

SEZ0073: JCL cards submitted to operating system successfully

```
14:09:44 ---------------- Processing confirmation ----------------- 2003-08-12
Command ===>

? - Help
................................................................................
Environment F164   Program ADASAV SAVE


The JCL generation completed successfully

Please confirm submitting with Y
                           ===> Y









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 8-16: Processing Confirmation Screen

Export Saved Job

To copy (i.e. export) the saved job from the SEZAM Saved Area into the NATURAL object without placing the saved job into the locked status execute the following steps:

Enter XP(EXPORT JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job.

Enter the name of the job which have to be exported into the NATURAL object together with the name of the corresponding NATURAL object (Fig. 8-17):

Parameter	Description
SOURCE JOB NAME	Name of the saved job
TARGET JOB NAME	Name of the NATURAL object where the saved job must be exported

Confirm processing (Fig. 8-18)

```
16:50:26 ---------- Saved jobs maintenance / Export job ------------ 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 Enter saved job to be exported (source):
   Job name    ===> SYSMAIN_________

 Enter the target job:
   Job name    ===> JCL003









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 8-16: Export Saved Job Screen

```
14:11:06 ---------------- Export job confirmation ----------------- 2003-08-12
Command ===>

? - Help
.............................................................................
Environment F164   Program ADASAV SAVE


The job processed successfully and job will be overwritten

Please confirm exporting with Y
                         ===> Y









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 8-18: Export Saved Job Confirmation Screen

Delete Saved Job

To delete the saved job from the SEZAM Saved Area execute the following steps:

Enter DE(DELETE JOB) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the appropriate job.

Confirm processing (Fig. 8-18)

After successfully execution the following message is displayed:

SEZ0171: Job deleted successfully

```
14:16:27 ---------------- Delete job confirmation ----------------- 2003-08-12
Command ===>

?- Help
.............................................................................
Please confirm delete of the job with the name JCL001
                                        ===> JCL001_________









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 8-18: Delete Saved Job Screen

Mass Update Saved Jobs

To process scan and replace of the jobs in the SEZAM Saved Area execute the following steps:

Enter SC(MASS UPDATE JOBS) as direct command in the „Command“ field on the screen with all jobs (Fig. 8-1), or as line command in the „Co“ field against the selected job.

Enter scan and/or replace values and confirm processing with the name of the user (Fig. 8-19)

After successfully execution the following message is displayed:

SEZ0289: Jobs changed successfully. 5 occurrence(s) replaced

```
14:21:24 ---------- Saved jobs maintenance / Change jobs ---------- 2003-08-12
 Command ===>

 ? - Help
.............................................................................
 Please confirm modification of the 63  saved jobs with the name KSM
                                                      ===> KSM_____


 Enter the saved jobs values:

 List records  ===> Y
 Record length ===> 70
 Upper case    ===> Y

 Scan value
 ===> SVC=249_____________________________________________________________

 Replace value
 ===> SVC=254_____________________________________________________________

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 8-19: Mass Update Saved Jobs Screen

9. Translation Table Maintenance

This facility ensures the possibility to create the list of the 'Translate From' magic words which are dynamically searched and replaced to 'Translate To' words. The pairs of 'Translate From'/'Translate To' values are stored in the translation tables (t-tables). The facility can be activated for user security passwords which must not by displayed in the plain job text.

Every user can have a single global Translation table and number of local Translation tables defined one per SEZAM environment. By the submitting of the JCL / REXX in the current environment, will be searched for the local Translation table defined for this environment, and then for the global one. The entries defined in the global table will be activated only if the local table is missing.

To invoke the SEZAM Translation table maintenance, enter on the SEZAM Maintenance menu (Fig. 3-3) in the „Function“ field the corresponding number of the „Saved job maintenance“ function:

```
     6 - Translation table
```

The list of all defined Translation tables will be shown in the short format (Fig. 9-1).

```
09:48:34 ------- Translation table maintenance / List short ------- 2003-08-13
 Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.............................................................................
 Co    User       User     Quantity
       name       Status
 --    --------   ------   --------
 __    KSM        A          2
 __    KSM1       A          1
 __    PEMA       A          2
 __    TSR        A          1









 Total records ===> 4

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr                                      Full
```

Figure 9-1: Translation Table List Screen / Short Format

The information shown in Figure 9-1 includes the following:

Information	Description
USER NAME	Name of the table's owner
USER STATUS	Status of the table's owner: A - owner exists in SEZAM (is active) N - owner does not exist
QUANTITY	Number of the tables of the owner
TOTAL RECORDS	Number of processed records

The following commands can be processed on the screen shown in Figure 9-1:

Information	Description
CR	Create Translation table
DE	Delete Translation table by user
SC	Mass Update Translation tables by user

By pressing on PF11 you can switch to the list of all defined Translation tables of the current use, i.e. owner in the full format (Fig. 9-2).

```
09:50:50 ------- Translation table maintenance / List full -------- 2003-08-13
 Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.....................................................................
 Co    User       User     Env.         Env.     T-table
       name       Status                Status   Type
 --    --------   ------   ----------   ------   ----------
 __    KSM        A                             Global
 __    KSM        A        Z103         A        Local
 __    KSM1       A                             Global
 __    PEMA       A                             Global
 __    PEMA       A        A187         A        Local
 __    TSR        A        Z103         A        Local




 Total records ===> 6

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr                                      Short
```

Figure 9-2: Translation Table List Screen / Full Format

Create Translation Table

To create the Translation table perform the following steps:

Enter CR(CREATE TABLE) as direct command in the „Command“ field (Fig. 9-1, Fig. 9-2).

Enter parameters of the t-table being created (Fig. 9-3):

Parameter	Description
ENVIRONMENT	Name of the environment where the t-table is to define (only for local t-tables). To select the environment from the list of the environments with no t-tables defined issue the SE(SELECT) command (Fig. 9-3)
TRANSLATE FROM/TO	entries which are searched and converted to the correspondent 'Translate to' entries by the execution of EX/SU/SB commands

After successfully processing the quantity of the created t-table for the given user increases (Fig. 9-1) and following message is displayed:

SEZ0405: T-table created successfully

```
14:53:34 ------ Translation table maintenance / Create table ------ 2003-08-13
 Command ===>

 ? - Help
.............................................................................
 Enter owner of the table being created:

   User name   ===> KSM
   Environment ===> F010_____

   Translate
   from       to
   ---------  --------------------------------------------------
   SECRET__   PUBLIC_____________________________________________
   _________  _____________________________________________________
   _________  _____________________________________________________
   _________  _____________________________________________________
   _________  _____________________________________________________


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Reset
```

Figure 9-3: Create Translation Table

Delete Translation Tables

To delete all Translation tables of the t-tables owner, or of the user not more defined in the SEZAM perform the following:

Enter DE(DELETE T-TABLE) as direct, or line command (Fig. 9-1).

Confirm processing with owner's name (Fig. 9-4):

After successfully processing the removed entry disappears from the list shown in Fig. 9-1 and following message is displayed:

SEZ0410: T-table deleted successfully

```
15:03:44 --- Translation table maintenance / Delete all tables ---- 2003-08-13
 Command ===>

 ? - Help
.............................................................................
 Please confirm delete of   3 t-tables with the name KSM      / ALL
                                                 ===> KSM_____ / ALL
                                                 ===> KSM_____ / ALL
                                                 ===> KSM_____
```

Mass Update Translation Tables

To scan and replace all Translation tables of the given owner take the following steps:

Enter SC(MASS UPDATE T-TABLES) as direct, or line command (Fig. 9-1, Fig. 9-2).

Confirm processing with owner's name (Fig. 9-5):

After successfully processing the removed entry disappears from the list shown in Fig. 9-1 and one of the following message is displayed:

SEZ0416: T-tables searched. 1 occurrence(s) found
SEZ0415: T-tables changed successfully. 1 occurrence(s) replaced

```
15:19:17 ------ Translation table maintenance / Change tables ----- 2003-08-13
 Command ===>

 ? - Help
.............................................................................
 Please confirm modification of the 3   t-tables with the name KSM
                                                        ===> KSM_____


 Enter the saved jobs values:

 List records  ===> Y


 Scan value
 ===> PUBLIC__

 Replace value
 ===> PRIVATE_


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 9-5: Mass Update Translation Tables

Browse Translation Table

To browse the single Translation table perform the following:

Enter BR(BROWSE T-TABLE) as direct, or line command (Fig. 9-2).

Enter the environment name, or leave it empty for the global t-table (Fig. 9-6).

After successfully processing the t-table will be displayed on the screen and the following message is displayed:

SEZ0424: T-tables browsed successfully

```
15:24:22 ------ Translation table maintenance / Browse table ------ 2003-08-13
 Command ===>

 ? - Help
.....................................................................
 Enter owner of the table being browsed:

   User name   ===> KSM
   Environment ===> __________









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 9-6: Browse Translation Table

Modify Translation Table

To modify the single Translation table do the following:

Enter ED(EDIT T-TABLE) as direct, or line command (Fig. 9-2).

Enter the environment name, or leave it empty for the global t-table (Fig. 9-7).

After successfully processing the t-table will be displayed on the screen and the following message is displayed:

SEZ0428: T-table modified successfully

```
15:27:28 ------- Translation table maintenance / Edit table ------- 2003-08-13
 Command ===>

 ? - Help
.............................................................................
 Enter owner of the table being modified:

   User name   ===> KSM
   Environment ===> __________









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 9-7: Modify Translation Table

Delete Translation Table

To delete the single Translation table of the t-tables owner, or of the user not more defined in the SEZAM perform the following:

Enter DE(DELETE T-TABLE) as direct, or line command (Fig. 9-2).

Enter user name together with the environment name, or leave the environment name empty for the global t-table (Fig. 9-8). Confirm processing with the user name and the environment name (only for the local t-tables).

After successfully processing the t-table with the given name will disappear from the list shown in Fig. 9-2 and the following message is displayed:

SEZ0410: T-table deleted successfully

```
15:34:11 -- Translation table maintenance / Delete single table --- 2003-08-13
 Command ===>

 ? - Help
.....................................................................
 Enter owner of the table being deleted:

   User name   ===> KSM_____
   Environment ===> __________









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 9-8: Delete Translation Table

Copy Translation Table By Name

To copy the single Translation table with the given name of the t-tables owner to the different name perform the following steps:

Enter CO(COPY T-TABLE) as direct, or line command (Fig. 9-2).

Enter the source and target environment's names, or leave one of the names empty if the global t-table is processed (Fig. 9-9).

After successfully processing the t-table with the given name will disappear from the list shown in Fig. 9-2 and the following message is displayed:

SEZ0432: T-table copied successfully

```
15:41:21 ------- Translation table maintenance / Copy table ------- 2003-08-13
 Command ===>

 ? - Help
.............................................................................
 Enter owner of the table being copied:

   User name   ===> KSM

   Environment:
     Source    ===> F010________
     Target    ===> F044________









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 9-9: Copy Translation Tables By Name

10. Retrieval Functions

The retrieval facility may be used to get the information about the objects defined to SEZAM and the existing relationships between them. With the Retrieval, you can not do any SEZAM maintenance, you may only look at things.

To invoke the SEZAM retrieval, enter on the SEZAM Administration menu (Fig. 3-2) in the „Function“ field the corresponding number of the „Retrieval“ function:

```
     2 - Retrieval
```

Utilities

To get the actual settings of function thresholds execute the following:

Enter corresponding function code in the „Function“ field on the SEZAM Retrieval menu (Fig. 3-4):

```
     1 - Utilities
```

The actual threshold settings are shown in Figure 10-1.

```
10:24:47 ------------------- Retrieve utilities ------------------- 2003-08-13
 Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.............................................................................
 Index  Utility/function               Threshold Authorization
 -----  ------------------------------ --------- -------------
   1    ADACMP COMPRESS                P         N
   2    ADACMP DECOMPRESS              P         N
   3    ADADBS ADD                     A         N
   4    ADADBS NEWALTS                 M         N
   5    ADADBS INCREASE                A         N
   6    ADADBS DECREASE                A         N
   7    ADADBS ALLOCATE                E         N
   8    ADADBS CHANGE                  E         N
   9    ADADBS DEALLOCATE              E         N
  10    ADADBS DELETE                  E         N


 Total records ===> 124

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr                  +
```

Figure 10-1: Utility Threshold Information Screen

The information shown in Figure 10-1 includes the following:

Information	Description
UTILITY/FUNCTION	Name of utility/function
THRESHOLD	Threshold value of the utility/function. For more information about thresholds consult *SEZAM Basic Principles* section.
AUTHORIZATION	Authorisation of the utility/function: Y - is defined, i.e. only the SEZAM Administrators granted to maintain SEZAM are authorised for the corresponding utility/function N - is undefined
TOTAL RECORDS	Total number of records

Commands

This function allows to trace the current commands *threshold* settings.

To get the values execute the following:

Enter corresponding function code in the „Function“ field on the SEZAM Retrieval menu (Fig. 3-4):

```
     2 - Commands
```

The threshold settings are shown in Figure 10-2.

```
10:35:08 ------------------- Retrieve commands -------------------- 2003-08-13
 Command ===>                                                SCROLL ===> PAGE

 CM - Command help
.............................................................................
 Ind  Name/Description                                  Type Threshold Author.
 ---  ------------------------------------------------- ---- --------- -------
   1  CL Browse command list                            SE   P         N
   2  CM Command help                                   S    P         N
   3  BR Browse parameter list                          S    P         N
   4  DE Delete parameter list                          S    P         N
   5  ED Edit generated job                             S    P         N
   6  EX Execute the job                                S    P         N
   7  GN Generate the job                               S    P         N
   8  ID Show user identification                       S    P         N
   9  LI List of generated jobs                         S    P         N
  10  SA Save parameter list                            S    P         N


 Total records ===> 118

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr                   +
```

Figure 10-2: Command Threshold Information Screen

The information shown in Figure 10-2 includes the following:

Information	Description
NAME/DESCRIPTION	Name of the command
TYPE	Type of the command: S - system command D - global direct command E - site independent external command U - user defined external command * - only visual part must be identical For more information about the commands of type U and * refer to *SEZAM Installation Manual* section.
THRESHOLD	Threshold value of the command. For more information about thresholds consult *SEZAM Basic Principles* section.
AUTHORIZATION	Authorisation of SEZAM command: Y - is defined, i.e. commands of type S are available only for the SEZAM Administrators granted with SEZAM administrative authority; the commands of type U can be processed only if the authorisation routine defined in the user exit SN00UEX1 terminates with the zero response code. For more information refer to *SEZAM Installation Manual* section. N - is undefined
TOTAL RECORDS	Total number of records

Environments

To get the list of all users who are authorised to operate with the specified ADABAS files within the specified SEZAM environment, perform the following:

Enter corresponding function code in the „Function“ field on the SEZAM Retrieval menu (Fig. 3-4):

```
     3 - Environments
```

Enter environment and ADABAS file number for which the cross-reference information should be displayed (Fig. 10-3).

The list of all users who may operate with selected ADABAS files within selected environment are shown in Figure 10-4.

To get the detailed information about user’s definition enter BR(BROWSE USER) as direct command in „Command“ field or as line command in the „Co“ field.
If command was issued as direct command enter the user’s parameters (Fig. 4-4):

The example of detailed user’s definition is shown in Figure 4-5.

```
11:00:15 ------------------ Retrieve environments ----------------- 2003-08-13
 Command ===>

 CM - Command help

.............................................................................
 Enter cross-reference information:

   Environment ===> F177_______
   File        ===> _____









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 10-3: Environment Cross Reference Screen

```
11:01:26 ------------- Cross-reference user / User list ----------- 2003-08-13
 Command ===>                                                 SCROLL ===> PAGE

 CM - Command help                                  Environment ===> F177
                                                           File ===>
.....................................................................................
 Co  User     User Env.       File                  Date of  Created
     name     type            list                  creation by
 --  -------- ---- ---------- --------------------- -------- ----------------
 __  AXBE     A                                     20011212 KSM
 __  BEKU     A                                     20011212 KSM
 __  CNE      M    F177                             20020702 KSM
 __  DNI      A                                     20011212 KSM
 __  GOZ      M    F177                             20020702 KSM
 __  JBE      A                                     19990506 KSM
 __  JKS      M    F177                             20020702 KSM
 __  JNM      A                                     19990413 KSM
 __  KOM      A                                     19991201 KSM
 __  KSM      A                                     19990413 KSM

 Total records ===> 10
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Refr                   +
```

Figure 10-4: Environment Cross Reference List Screen

11. SEZAM Utilities

SEZAM utilities are the part of the SEZAM Administration Subsystem (Fig 1-1) and are used for the maintenance of the SEZAM objects in batch.

The following objects can be processed with SEZAM utilities:

- Users
- Environments
- History Records
- Parameter Lists
- Saved Jobs
- Translation Tables

The *SEZAM Utilities Manual* describes the various SEZAM utilities. These are:

Utility	**Function**
SEZUNLD	Unloading of SEZAM objects from the SEZAM system file
SEZLOAD	Loading of SEZAM objects to the SEZAM system file
SEZDEL	Delete of SEZAM objects from the SEZAM system file
SEZLIST	Display a range of SEZAM objects within the SEZAM system file

An overview of SEZAM Utilities is shown in Fig. 1-4.

To invoke the SEZAM utilities, enter on the SEZAM Administration menu (Fig. 3-2) in the „Function“ field the corresponding number of the „Utilities“ function:

```
    3 - Utilities
```

Any of SEZAM utilities can be selected for further execution from SEZAM Utilities menu (Fig. 11-1).

```
16:01:01 --------------------- SEZAM utilities -------------------- 2003-08-13
 Function ===>

 _ 1 SEZUNLD  - unload SEZAM objects
 _ 2 SEZLOAD  - load SEZAM objects
 _ 3 SEZDEL   - delete SEZAM objects
 _ 4 SEZLIST  - list SEZAM objects









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 11-1: SEZAM Utilities menu

```
16:01:41 ------------- Unload SEZAM objects / SEZUNLD ------------- 2003-08-13
 Function ===> 1

 _ 1 Users
 _ 2 Environments
 _ 3 History records
 _ 4 Parameter's list
 _ 5 Saved job
 _ 6 Translation tables









Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit
```

Figure 11-2: SEZULD menu

The following program function (PF) keys can be available on SEZAM Utility functional screens:

Key	Function
PF1	Help
PF3	Exit to previous screen
PF4	Set default values of SEZAM Utility parameters
PF12	Allocate required datasets for the SEZAM Utility

To execute any of SEZAM Utilities perform the following steps:

Select the SEZAM Utility by entering the corresponding number in the „Function“ field, or using the cursor on the SEZAM Utilities menu (Fig. 11-1); for example SEZUNLD Utility.

Enter the type of SEZAM object for the processing with the selected SEZAM Utility; for example USERS (Fig. 11-2).

Enter required and optional SEZAM Utility parameters on the functional screen (Fig. 11-3). The step can be processed with the help of parameter’s list commands (SA/BR/DE). For information about parameter’s list commands consult the section *SEZAM Command* in *SEZAM User’s Manual.*

Out of necessity allocate the datasets which are required for some of SEZAM Utilities. For example, the SEZUNLD can require the CMWKF01, CMWKF02 and CMWKF03. For information about the dataset allocation consult the section *ADABAS Maintenance* in *SEZAM User’s Manual.*

Enter the job processing command for the JCL / REXX execution (EX) or generation (GN). For information about job processing commands consult the section *SEZAM Commands* in *SEZAM User’s Manual.*

```
11:09:32 ------------- Unload SEZAM users / SEZUNLD -------------- 2003-08-13
 Command ===>

 CM - Command help
.............................................................................
 Parmlist destination:                            Job destination:
  Parmlist name ===> SEZAM312__________________       Job name ===> DUMMY_

.............................................................................
 Utility parameters:
  Environment/AdarunMode ===> SEZAM312__ / MULTI_
   Library/User/Password ===> W312-011 / KSM_____ /          *

   User name          ===> K*______
   User environment   ===> *_________
   User type          ===> *
   User authorization ===> *
   Input delimiter    ===> ,
   Terminal commands  ===> %


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12--
      Help        Exit  Defaults                                       Alloc
```

Figure 11-3: SEZULD (SEZAM Users) screen

12. SEZAM Corrections

SEZAM Corrections can be used for tracing the currently applied corrections, which can be the first point by investigating of the different problems by SEZAM technical support.

The SEZAM corrections are described in *SEZAM Installation Manual*.

To invoke the SEZAM corrections, enter on the SEZAM Administration menu (Fig. 3-2) in the „Function“ field the corresponding number of the „Utilities“ function:

```
     4 - Corrections
```

The example of SEZAM correction screen is shown in Fig. 12-1.

```
16:38:13 ---------------- Applied source corrections -------------- 2009-03-12
Command ===>

CM - Command help
.....................................................................

   312001 312002 312003 312004 312005 312006 312007 312008 312009 312010
   312011 312012 312013 312014 312015 312016 312017 312018 312019 312020
   312021 312022 312023 312024 312025 312026 312027 312028 312029 312030
   312031 312032 312033 312034 312035 312036 312037 312038 312039 312040
   312041 312042 312043 312044 312045 312046 312047 312048 312049 312050
   312051 312052 312053 312054 312055 312056 312057 312058 312059 312060
   312061 312062 312063 312064 312065 312066 312067 312068 312069 312070
   312071 312072 312073 312074 312075 312076 312077 312078 312079 312080
   312081 312082 312083 312084 312085 312086 312087 312088 312089 312090
   312091 312092 312093 312094 312095 312096 312097 312098 312099




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 12-1: SEZAM Corrections

13. SEZAM Options

The feature is designed for displaying SEZAM installation options together with the current system settings. The product code is always to pass to SEZAM technical support by the reporting of the problems of any kind.

The SEZAM options are described in *SEZAM Installation Manual*.

To invoke the SEZAM options, enter on the SEZAM Administration menu (Fig. 3-2) in the „Function“ field the corresponding number of the „Utilities“ function:

```
     5 - Options
```

The example of SEZAM options screen is shown in Fig. 13-1.

```
16:36:55 ----------------- Installation options ----------------- 2009-11-11
Command ===> GN

CM - Command help
.....................................................................
Report destination:
 Report name ===> REP01_
.....................................................................
Product information:
  Product code          : SEZ312 - 20091111 / R312106 / W312098
  Customer              : Software AG
  License               : Full
System settings:
 _ Natural editor
 _ History facility
 _ Default names
 _ Scroll processing
 _ Generate processing
 _ Dataset allocation
 _ Confirmation processing

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12-
      Help        Exit
```

Figure 13-1: SEZAM Options

The system settings are divided into groups (Natural editor, History facility etc.).
To display the group settings select the corresponding group with non blank character or with cursor.

To generate the summary system report into Natural text object specify report name and execute GN(Generate report) command.

APPENDIX A - Examples of Environment Definition

BS2000/OSD

GRS records for ADABAS JCL stream.

```
Prty  Record      Value
----  ----------  ------------------------------------------------------------
 1    LOGON-A     /.#JOBNAME LOGON
                  /REMARK #COMMENTS
 2    SEZENV      /REMARK SEZENV=BS2000-1
 3    SYSFILE-A   /ASSIGN-SYSDTA *SYSCMD
                  /ASSIGN-SYSLST LI.#JOBNAME.DB069.#PROG.SYSLST
 4    DDLIB-A     /FILE $RZ.ADA621.MOD        ,LINK=DDLIB
 5    USERFB
10    #DDASSOR1   /FILE $RZ.ADA69.ASSO        ,LINK=DDASSOR1,SHARUPD=YES
11    DDDATAR1    /FILE $RZ.ADA69.DATA        ,LINK=DDDATAR1,SHARUPD=YES
12    DDWORKR1    /FILE $RZ.ADA69.WORK        ,LINK=DDWORKR1,SHARUPD=YES
20    USERTB
21    DDSORTR1    /FILE $RZ.ADA69.SORT        ,LINK=DDSORTR1,SHARUPD=YES
22    DDTEMPR1    /FILE $RZ.ADA69.TEMP        ,LINK=DDTEMPR1,SHARUPD=YES
23    USERTE
24    USERPB
25    DDPLOGR1    /FILE $RZ.ADA69.PLOG1       ,LINK=DDPLOGR1,SHARUPD=YES
26    DDPLOGR2    /FILE $RZ.ADA69.PLOG2       ,LINK=DDPLOGR2,SHARUPD=YES
27    USERPE
28    USERCB
31    USERCE
32    USERRB
35    USERRE
36    USERDB
38    USERDE
60    USERFE
64    USERDD
65    DDDRUCK     /FILE LI.#JOBNAME.DB069.#PROG.DRUCK    ,LINK=DDDRUCK
66    DDPRINT     /FILE LI.#JOBNAME.DB069.#PROG.PRINT    ,LINK=DDPRINT
67    EX-ADARUN   /EXEC (ADARUN,$RZ.ADA621.MOD)
68    ADARUN-PA   ADARUN PROG=#PROG
                  ADARUN IDTNAME=ADABAGK1
                  ADARUN DEVICE=2000
                  ADARUN MODE=#MODE
                  ADARUN DBID=069
70    USERSB
71    ADARUN-PLG  ADARUN PLOGRQ=NO
72    USERSE
73    USERR2B
74    ADARUN-RAI  ADARUN UEX2=ADAEX2
75    USERR2E
78    /EOF        /EOF
80    USERPA
99    LOGOFF      /ASS-SYSOUT *PRIMARY
                  /ASS-SYSLST *PRIMARY
                  /LOGOFF
```

GRS records for NATURAL JCL stream (syntax 1).

```
Prty  Record      Value
----  ----------  ------------------------------------------------------------
 1    LOGON-N     /.#JOBNAME LOGON
                  /REMARK * #COMMENTS
 2    SEZENV      /REMARK SEZENV=BS2000-1
 3    SYSFILE-N   /DEL-FILE LI.#USERNAME.#PROG.SYSOUT.NAT069
                  /DEL-FILE LI.#USERNAME.#PROG.SYSLST.NAT069
                  /SET-JOB-STEP
                  /ASS-SYSOUT LI.#USERNAME.#PROG.SYSOUT.NAT069
                  /ASS-SYSLST LI.#USERNAME.#PROG.SYSLST.NAT069
 4    DDLIB-N     /FILE $RZ.ADA621.MOD        ,LINK=DDLIB
10    #DDASSOR1   /FILE $RZ.ADA69.ASSO        ,LINK=DDASSOR1,SHARUPD=YES
11    DDDATAR1    /FILE $RZ.ADA69.DATA        ,LINK=DDDATAR1,SHARUPD=YES
12    DDWORKR1    /FILE $RZ.ADA69.WORK        ,LINK=DDWORKR1,SHARUPD=YES
20    USERDD
21    PROC-EDT-B  /SET-FILE-LINK DDLNKPAR ,#DDLNKPAR
                  /MOD-J-SW ON=(4,5)
                  /ASS-SYSDTA *SYSCMD
                  /START-PROG EDT
22    ADARUN-PN   §CR 1 : 'ADALNK IDTNAME=ADABAGK1'
                  §CR 2 : 'ADALNK DBID=069'
23    PROC-EDT-E  §W '#DDLNKPAR' O
                  §H
                  /MOD-J-SW OFF=(4,5)
                  /SET-JOB-STEP
                  /ASS-SYSDTA *PRIMARY
24    MOD-J-SW    /MOD-J-SW ON=(2)
25    EX-NATURAL  /START-PROG DEMO.NATPHSE
26    USERNB
27    NATPARM     IM=D,AUTO=OFF,DBID=069,INTENS=1,LFILE=(133,69,3),PS=250,LS=069
28    USERNE
29    USERN2B
30    INPL        STACK=INPL,IM=D,AUTO=OFF,DBID=069,INTENS=1
31    USERN2E
32    EOF         /EOF
80    USERPA
99    LOGOFF      /ASS-SYSOUT *PRIMARY
                  /ASS-SYSLST *PRIMARY
                  /LOGOFF
```

GRS records for NATURAL JCL stream (syntax 1).

```
Prty  Record      Value
----  ----------  ------------------------------------------------------------
 1    LOGON-N     /.#JOBNAME LOGON RZDB,1
                  /          SKIP-COMMANDS   TO-LABEL=BEGIN
                  /#COMMENTS
                  /JOB #JOBNAME RUN FOR #USERINFO
                  /.BEGIN    REMARK
 2    SEZENV      /REMARK SEZENV=BS2000-2
 3    SYSFILE-N   /DEL-FILE LI.#USERNAME.#PROG.SYSOUT.NAT2001
                  /DEL-FILE LI.#USERNAME.#PROG.SYSLST.NAT2001
                  /SET-JOB-STEP
                  /ASS-SYSOUT LI.#USERNAME.#PROG.SYSOUT.NAT2001
                  /ASS-SYSLST LI.#USERNAME.#PROG.SYSLST.NAT2001
 4    DDLIB-N     /FILE $RZDB.DEMO.ADA712.MOD ,LINK=DDLIB
10    #DDASSOR1   /FILE $RZDB.ADA2001.ASSO        ,LINK=DDASSOR1,SHARUPD=YES
11    DDDATAR1    /FILE $RZDB.ADA2001.DATA        ,LINK=DDDATAR1,SHARUPD=YES
12    DDWORKR1    /FILE $RZDB.ADA2001.WORK        ,LINK=DDWORKR1,SHARUPD=YES
20    USERDD
21    PROC-ADA-B  /SET-FILE-LINK DDLNKPAR ,#DDLNKPAR
                  /MOD-J-SW ON=(4,5)
                  /ASS-SYSDTA *SYSCMD
                  /START-PROG EDT
22    ADARUN-PN   §CR 1 : 'ADALNK IDTNAME=ADABASSN'
                  §CR 2 : 'ADALNK DBID=2001'
23    PROC-ADA-E  §W '#DDLNKPAR' O
                  §H
                  /SET-JOB-STEP
24    USERNB      **** REMOVE DYNAMIC PARAMETERS WITH EOF ****
25    PROC-NAT-B  /SET-FILE-LINK CMPRMIN  ,#CMPRMIN
                  /START-PROG EDT
26    NATPARM     §CR 1 : 'IM=D,AUTO=OFF,DBID=2001,INTENS=1'
27    PROC-NAT-E  §W '#CMPRMIN ' O
                  §H
                  /MOD-J-SW OFF=(4,5)
                  /SET-JOB-STEP
                  /ASS-SYSDTA *PRIMARY
28    USERNE
29    USERN2B     **** REMOVE DYNAMIC PARAMETERS WITH EOF ****
30    PROC-INP-B  /SET-FILE-LINK CMPRMIN  ,#CMPRMIN
                  /MOD-J-SW ON=(4,5)
                  /ASS-SYSDTA *SYSCMD
                  /START-PROG EDT
31    INPL        §CR 1 : 'IM=D,AUTO=OFF,DBID=2001,INTENS=1,STACK=INPL'
32    PROC-INP-E  §W '#CMPRMIN ' O
                  §H
                  /MOD-J-SW OFF=(4,5)
                  /SET-JOB-STEP
                  /ASS-SYSDTA *PRIMARY
33    USERN2E
64    MOD-J-SW    /MOD-J-SW ON=(2)
65    EX-NATURAL  /START-PROG DEMO.NATPHSE
80    USERPA
99    LOGOFF      /ASS-SYSOUT *PRIMARY
                  /ASS-SYSLST *PRIMARY
                  /LOGOFF
```

z/OS

GRS records for ADABAS JCL stream.

```
Prty  Record      Value
----  ----------  ------------------------------------------------------------
 1    JCH-A       //#JOBNAME JOB (,,,999),#USERINFO,CLASS=W,MSGCLASS=X
                  //* #COMMENTS
 2    SEZENV      //* SEZENV=MVS
 3    #NODE       /*ROUTE XEQ MVS
                  /*JOBPARM SYSAFF=MVS
                  /*ROUTE PRINT MVS
 4    EX ADARUN   //SEZADA EXEC PGM=ADARUN,REGION=8000K,TIME=1440
 5    STEPLIB-A   //STEPLIB  DD DSN=ADABAS.VXXX.MVSLOAD,DISP=SHR
 6    USERFB
10    #DDASSOR1   //DDASSOR1 DD DSN=DB333.ASSOR1,DISP=SHR
11    DDDATAR1    //DDDATAR1 DD DSN=DB333.DATAR1,DISP=SHR
12    DDWORKR1    //DDWORKR1 DD DSN=DB333.WORKR1,DISP=SHR
13    USERPB
14    DDPLOGR1    //DDPLOGR1 DD DSN=DB333.PLOGR1,DISP=SHR
15    DDPLOGR2    //DDPLOGR2 DD DSN=DB333.PLOGR2,DISP=SHR
16    USERPE
17    USERRB
18    DDRLOGM1    //DDRLOGM1 DD DSN=DB333.RLOGM1,DISP=SHR
19    DDRLOGR1    //DDRLOGR1 DD DSN=DB333.RLOGR1,DISP=SHR
20    USERRE
22    USERTB
23    DDSORTR1    //DDSORTR1 DD DSN=DB333.SORTR1,DISP=OLD
24    DDTEMPR1    //DDTEMPR1 DD DSN=DB333.TEMPR1,DISP=OLD
25    USERTE
26    USERCB
27    DDCLOGR1    //DDCLOGR1 DD DSN=DB333.CLOGR1,DISP=SHR
28    DDCLOGR2    //DDCLOGR2 DD DSN=DB333.CLOGR2,DISP=SHR
29    USERCE
30    USERDB
31    DDDSIMR1    //DDDSIMR1 DD DSN=DB333.DSIMR1,DISP=SHR
32    USERDE
45    USERFE
49    USERDD
50    DDDRUCK     //DDDRUCK  DD SYSOUT=*
51    DDPRINT     //DDPRINT  DD SYSOUT=*
52    DDCARD      //DDCARD   DD *
53    ADARUN-P    ADARUN PROG=#PROG
                  ADARUN SVC=249
                  ADARUN DEVICE=3390
                  ADARUN MODE=#MODE
                  ADARUN DSF=YES
54    #ADARUN-DB  ADARUN DBID=333
55    USERSB
56    ADARUN-PLG  ADARUN PLOGRQ=NO
57    USERSE
58    USERR2B
59    ADARUN-RAI  ADARUN UEX2=ADAEX2
60    USERR2E
88    DDKARTE     //DDKARTE  DD *
90    USERPA
99    JCT         //* END GENERATION
```

GRS records for NATURAL JCL stream.

```
Prty  Record      Value
----  ----------  ------------------------------------------------------------
 1    JCH-N       //#JOBNAME JOB (,,,999),#USERINFO,CLASS=W,MSGCLASS=X,REGION=3M,
                  //   NOTIFY=&SYSUID
                  //* #COMMENTS
 2    SEZENV      //* SEZENV=MVS
 3    #NODE       /*ROUTE XEQ MVS
                  /*JOBPARM SYSAFF=MVS
                  /*ROUTE PRINT MVS
 4    EX NATURAL  SEZDO=Enter the Natural version
                  //SEZNAT EXEC PGM=NATBAT31,REGION=3M,
                  SEZEND
 5    USERNB
 6    NATPARM     // PARM='IM=D,INTENS=1'
 7    USERNE
 8    USERN2B
 9    INPL        // PARM='STACK=INPL,AUTO=OFF,IM=D,INTENS=1'
10    USERN2E
20    STEPLIB-N   //STEPLIB  DD DSN=NATURAL.VXXX.MVSLOAD,DISP=SHR
30    #DDASSOR1   //DDASSOR1 DD DSN=DB333.ASSOR1,DISP=SHR
31    DDDATAR1    //DDDATAR1 DD DSN=DB333.DATAR1,DISP=SHR
49    USERDD
50    CMPRINT     //CMPRINT DD SYSOUT=*
51    DDPRINT     //DDPRINT  DD SYSOUT=*
52    DDCARD      //DDCARD   DD *
53    ADARUN-P    ADARUN PROG=#PROG
                  ADARUN SVC=249
                  ADARUN DEVICE=3390
                  ADARUN MODE=#MODE
                  ADARUN DSF=YES
54    #ADARUN-DB  ADARUN DBID=333
55    CMSYNIN     //CMSYNIN DD *
90    USERPA
99    JCT         //* END GENERATION
```

z/VM

GRS records for ADABAS REXX stream.

```
Prty  Record      Value
----  ----------  ------------------------------------------------------------
 1    JCH-A       /* #COMMENTS
 2    SEZENV      SEZENV=VM
                  */
                  SAY '#COMMENTS'
 3    USEROS      VM
 4    CMSSET      TRACE OFF
                  SET CMSTYPE HT
                  'CP SET IMSG OFF'
                  'CP SET EMSG OFF'
 5    SET-ADA1    /* COMMON SETTINGS */
                  'SET FILEPOOL DAEXUSR:'
                  ADADIR   = 'DB33333A.ADA712.LOAD'
                  ADADIRDB = 'DB33333A.ADA712.DBA.DB33333'
                  ADDRESS CMS 'VMLINK .DIR' ADADIRDB '<= A-Z/A> (PUSH NOTYPE'
                  ADDRESS CMS 'VMLINK .DIR' ADADIR '<= A-Z/A> (PUSH NOTYPE'
 6    SET-ADA2    'SET STORECLR ENDCMD'
                  'SET LDRTBLS 20'
                  'SET LOADAREA 20000'
                  'SETTXTLB'
                  'NUCXDROP *'
                  'NUCXTNTS'
                  'RELDD'
 7    ADALINK     /* LINK DATABASE */
                  DO I = 200 TO 225
                    VAR = DIAG(8,'CP DETACH 0'!!I)
                  END
                  'CP LINK DB33333 200 200 MW NOT_USED'    /* ASSO */
                  'CP LINK DB33333 300 201 MW NOT_USED'    /* DATA */
 8    ADALINK2    'CP LINK DB33333 400 202 MW NOT_USED'    /* WORK */
                  'CP LINK DB33333 410 203 MW NOT_USED'    /* SORT */
                  'CP LINK DB33333 420 204 MW NOT_USED'    /* TEMP */
 9    USERFB
10    #DDASSOR1   'DATADEF DDASSOR1,DSN=DB33333.ASSO,VOL=ASS200,UNIT=200'
11    DDDATAR1    'DATADEF DDDATAR1,DSN=DB33333.DATA,VOL=DAT300,UNIT=201'
12    DDWORKR1    'DATADEF DDWORKR1,DSN=DB33333.WORK,VOL=WOR400,UNIT=202'
13    USERPB
16    USERPE
17    USERRB
20    USERRE
22    USERTB
23    DDSORTR1    'DATADEF DDSORTR1,DSN=DB33333.SORT,VOL=SOR420,UNIT=203'
24    DDTEMPR1    'DATADEF DDTEMPR1,DSN=DB33333.TEMP,VOL=TEM410,UNIT=204'
25    USERTE
26    USERCB
29    USERCE
30    USERDB
32    USERDE
45    USERFE
49    USERDD
50    DDDRUCK     /* DDDRUCK    */
                 'STATE #JOBNAME DDDRUCK T1'
                  IF RC = 0 THEN 'ERASE #JOBNAME DDDRUCK T1'
                  DRUCK = 'DSN=#JOBNAME.DDDRUCK,MODE=T'
                  ADDRESS CMS 'DATADEF DDDRUCK,'!!DRUCK
51    DDPRINT     /* DDPRINT    */
                  'STATE #JOBNAME DDPRINT T1'
                  IF RC = 0 THEN 'ERASE #JOBNAME DDPRINT T1'
                  PRINT = 'DSN=#JOBNAME.DDPRINT,MODE=T'
                  ADDRESS CMS 'DATADEF DDPRINT,'!!PRINT
52    REM001      /* DDCARD     */
                  ARUN.  = 'NDEF'
53    ADARUN-P    ARUN.1 = 'ADARUN PROG=#PROG'
                  ARUN.2 = 'ADARUN DEVICE=3390'
                  ARUN.3 = 'ADARUN MODE=#MODE'
54    #ADARUN-DB  ARUN.4 = 'ADARUN DBID=33333'
55    USERSB
56    ADARUN-PLG  ARUN.5 = 'ADARUN PLOGRQ=NO'
57    USERSE
60    USERR2B
61    ADARUN-RAI  ARUN.6 = 'ADARUN UEX2=ADAEX2'
62    USERR2E
```

```
63    DDCARD-WR1  'STATE #JOBNAME DDCARD T1'
                  IF RC = 0 THEN 'ERASE #JOBNAME DDCARD T1'
64    DDCARD-WR2  DO I = 1 TO 99
                    IF ARUN.I <> 'NDEF' THEN DO
                      IF I = 1 THEN
                        'EXECIO 1 DISKW #JOBNAME DDCARD T1 0 F 80 (FINIS STRING 'ARUN.I
                      ELSE
                        'EXECIO 1 DISKW #JOBNAME DDCARD T1 (FINIS STRING 'ARUN.I
                    END
                  END
65    DDCARD      CARD  = 'DSN=#JOBNAME.DDCARD,MODE=T'
                  'DATADEF DDCARD,'!!CARD
88    REM002      /* DDKARTE    */
                  AKAR.  = 'NDEF'
90    USERPA
91    DDKART-WR1  'STATE #JOBNAME DDKARTE T1'
                  IF RC = 0 THEN 'ERASE #JOBNAME DDKARTE T1'
92    DDKART-WR2  DO I = 1 TO 99
                    IF AKAR.I <> 'NDEF' THEN DO
                      IF I = 1 THEN
                        'EXECIO 1 DISKW #JOBNAME DDKARTE T1 0 F 80 (FINIS STRING 'AKAR.I
                      ELSE
                        'EXECIO 1 DISKW #JOBNAME DDKARTE T1 (FINIS STRING 'AKAR.I
                    END
                  END
93    DDKARTE     KARTE = 'DSN=#JOBNAME.DDKARTE,MODE=T'
                  'DATADEF DDKARTE,'!!KARTE
94    EX ADARUN   ADARUN
95    REST-ADA1   /* RESTORE ENVIRONMENT */
                  'NUCXDROP *'
                  ADDRESS CMS 'VMLINK .DIR' ADADIR '(POP DETACH'
                  ADDRESS CMS 'VMLINK .DIR' ADADIRDB '(POP DETACH'
                  ADDRESS CMS 'RELDD'
96    REST-ADA2   DO I = 200 TO 225
                    VAR = DIAG(8,'CP DETACH 0'!!I)
                  END
                  CP SET IMSG ON
                  CP SET EMSG ON
99    JCT         /* END GENERATION */
```

GRS records for NATURAL REXX stream.

```
Prty  Record      Value
    ----  ----------  ------------------------------------------------------------
     1    JCH-N       /* #COMMENTS
     2    SEZENV      SEZENV=VM
                      */
                      SAY '#COMMENTS'
     3    USEROS      VM
     4    CMSSET      TRACE OFF
                      SET CMSTYPE HT
                      'CP SET IMSG OFF'
                      'CP SET EMSG OFF'
     5    SET-NAT1    /* COMMON SETTINGS */
                      'SET FILEPOOL DAEXUSR:'
                      NATDIR   = 'DB33333A.NAT314.LOAD'
                      NATDIRDB = 'DB33333A.NAT314.DBA.DB33333'
                      ADDRESS CMS 'VMLINK .DIR' NATDIRDB '<= A-Z/A> (PUSH NOTYPE'
                      ADDRESS CMS 'VMLINK .DIR' NATDIR '<= A-Z/A> (PUSH NOTYPE'
     6    SET-NAT2    'SET STORECLR ENDCMD'
                      'SET LDRTBLS 20'
                      'SET LOADAREA 20000'
                      'SETTXTLB'
                      'NUCXDROP *'
                      'NUCXTNTS'
                      'RELDD'
                      'FILEDEF * CLEAR'
     7    ADALINK     /* LINK DATABASE */
                      DO I = 200 TO 225
                        VAR = DIAG(8,'CP DETACH 0'!!I)
                      END
                      'CP LINK DB33333 200 200 MW NOT_USED'    /* ASSO */
                      'CP LINK DB33333 300 201 MW NOT_USED'    /* DATA */
     8    ADALINK2    'CP LINK DB33333 400 202 MW NOT_USED'    /* WORK */
                      'CP LINK DB33333 410 203 MW NOT_USED'    /* SORT */
                      'CP LINK DB33333 420 204 MW NOT_USED'    /* TEMP */
    30    #DDASSOR1   'DATADEF DDASSOR1,DSN=DB33333.ASSO,VOL=ASS200,UNIT=200'
    31    DDDATAR1    'DATADEF DDDATAR1,DSN=DB33333.DATA,VOL=DAT300,UNIT=201'
    49    USERDD
    50    CMPRINT     /* CMPRINT    */
                      'STATE #JOBNAME CMPRINT T1'
                      IF RC = 0 THEN 'ERASE #JOBNAME CMPRINT T1'
                      CMPRINT  = ' #JOBNAME CMPRINT T1'
                      'FILEDEF CMPRINT DISK '!!CMPRINT
    52    REM001      /* DDCARD     */
                      ARUN.  = 'NDEF'
    53    ADARUN-P    ARUN.1 = 'ADARUN PROG=#PROG'
                      ARUN.2 = 'ADARUN DEVICE=3390'
                      ARUN.3 = 'ADARUN MODE=#MODE'
    54    #ADARUN-DB  ARUN.4 = 'ADARUN DBID=33333'
    63    DDCARD-WR1  'STATE #JOBNAME DDCARD T1'
                      IF RC = 0 THEN 'ERASE #JOBNAME DDCARD T1'
    64    DDCARD-WR2  DO I = 1 TO 99
                        IF ARUN.I <> 'NDEF' THEN DO
                          IF I = 1 THEN
                            'EXECIO 1 DISKW #JOBNAME DDCARD T1 0 F 80 (FINIS STRING 'ARUN.I
                          ELSE
                            'EXECIO 1 DISKW #JOBNAME DDCARD T1 (FINIS STRING 'ARUN.I
                        END
                      END
    65    DDCARD      CARD  = 'DSN=#JOBNAME.DDCARD,MODE=T'
                      'DATADEF DDCARD,'!!CARD
    69    REM003      /* CMSYNIN    */
                      ASYN.  = 'NDEF'
    70    USERPA
    72    CMSYNI-WR1  'STATE #JOBNAME CMSYNIN T1'
                      IF RC = 0 THEN 'ERASE #JOBNAME CMSYNIN T1'
    73    CMSYNI-WR2  DO I = 1 TO 99
                        IF ASYN.I <> 'NDEF' THEN DO
                          IF I = 1 THEN
                            'EXECIO 1 DISKW #JOBNAME CMSYNIN T1 0 F 80 (FINIS STRING 'ASYN.I
                          ELSE
                            'EXECIO 1 DISKW #JOBNAME CMSYNIN T1 (FINIS STRING 'ASYN.I
                        END
                      END
    74    CMSYNIN     CMSYNIN  = ' #JOBNAME CMSYNIN T1'
                      'FILEDEF CMSYNIN DISK '!!CMSYNIN
    78    REM004      /* NATPARM    */
```

```
79    NATPRM-WR1  NATPRM = ''
                  APRM. = 'NDEF'
80    USERNB
81    NATPARM     APRM.1 = 'INTENS=1'
                  APRM.2 = 'MT=0'
                  APRM.3 = 'IM=D'
                  APRM.4 = 'AUTO=OFF'
                  APRM.5 = 'WORK=((1-2),AM=STD'
84    USERNE
85    USERN2B
86    INPL        APRM.1 = 'STACK=INPL'
                  APRM.2 = 'INTENS=1'
                  APRM.3 = 'MT=0'
                  APRM.4 = 'IM=D'
                  APRM.5 = 'AUTO=OFF'
                  APRM.6 = 'WORK=((1),AM=STD)'
88    USERN2E
89    NATPRM-WR2  DO I = 1 TO 99
                    IF APRM.I <> 'NDEF' THEN DO
                      IF I = 1 THEN NATPRM = NATPRM !! APRM.I
                      IF I > 1 THEN NATPRM = NATPRM !! ',' !! APRM.I
                    END
                  END
94    EX NATURAL  "NAT31 BATCH" NATPRM
95    REST-NAT1   /* RESTORE ENVIRONMENT */
                  'NUCXDROP *'
                  ADDRESS CMS 'VMLINK .DIR' NATDIR '(POP DETACH'
                  ADDRESS CMS 'VMLINK .DIR' NATDIRDB '(POP DETACH'
                  ADDRESS CMS 'RELDD'
                  ADDRESS CMS 'FILEDEF * CLEAR'
96    REST-NAT2   DO I = 200 TO 225
                    VAR = DIAG(8,'CP DETACH 0'!!I)
                  END
                  CP SET IMSG ON
                  CP SET EMSG ON
99    JCT         /* END GENERATION */
```

z/VSE

GRS records for ADABAS JCL stream.

```
Prty  Record      Value
----  ----------  ------------------------------------------------------------
 1    JCH-A       * $$ JOB JNM=#JOBNAME,CLASS=0,DISP=D
                  * $$ LST CLASS=A,DISP=D,DEST=(,#USERINFO)
                  // JOB #JOBNAME #USERINFO
                  /* #COMMENTS
                  // OPTION LOG
 2    SEZENV      /* SEZENV=VSE
 4    USERFB
 5    #ADAFILE1   // EXEC    PROC=ADAFIL
 6    LIBDEF-A    // LIBDEF PHASE,SEARCH=SAGLIB.ADA713
 7    USERTB
10    USERTE
11    USERPB
14    USERPE
15    USERCB
18    USERCE
19    USERRB
22    USERRE
23    USERDB
25    USERDE
40    USERFE
50    USERDD
55    ADARUN      // ASSGN   SYS009,SYSLST
                  // EXEC   PGM=ADARUN,SIZE=ADARUN
60    ADARUN-P    ADARUN PROG=#PROG
                  ADARUN MODE=#MODE
                  ADARUN SVC=47
                  ADARUN DEVICE=3390
61    #ADARUN-P   ADARUN DBID=241
68    USERSB
69    ADARUN-PLG  ADARUN PLOGRQ=NO
70    USERSE
71    USERR2B
72    ADARUN-RAI  ADARUN UEX2=ADAEX2
73    USERR2E
75    /*          /*
80    USERPA
99    JCT         /*
                  /&
                  * $$ EOJ
```

GRS records for NATURAL JCL stream.

```
Prty  Record      Value
----  ----------  ------------------------------------------------------------
 1    JCH-N       * $$ JOB JNM=#JOBNAME,CLASS=4,DISP=D
                  * $$ LST CLASS=A,DISP=D,DEST=(,#USERINFO)
                  // JOB #JOBNAME #USERINFO
                  /* #COMMENTS
 2    SEZENV      /* SEZENV=VSE
 5    #ADAFILE1   // EXEC    PROC=ADAFIL
 6    LIBDEF-N    // LIBDEF *,SEARCH=(SAGLIB.ADA713,SAGLIB.USR315),TEMP
 9    USERDD
10    EX NATURAL  // ASSGN   SYS000,READER
                  // EXEC    PGM=NAT315BA,SIZE=NAT315BA,PARM='SYSRDR'
14    USERNB
15    NATPARM     AUTO=OFF,IM=D,MT=0,INTENS=1,DBID=241
16    USERNE
17    USERN2B
18    INPL        STACK=INPL,AUTO=OFF,IM=D,MT=0,INTENS=1,DBID=241
19    USERN2E
59    /           /*
60    ADARUN-P    ADARUN PROG=#PROG
                  ADARUN MODE=#MODE
                  ADARUN SVC=47
                  ADARUN DEVICE=3390
61    #ADARUN-P   ADARUN DBID=241
75    /*          /*
80    USERPA
99    JCT         /*
                  /&
                  * $$ EOJ
```

APPENDIX B - #PROGNAME Values

NR.	#PROGNAME
1	ADAACK
2	ADACDC
3	ADACMP COMPRESS
4	ADACMP DECOMPRESS
5	ADACNV CONVERT
6	ADACNV REVERT
7	ADADBS ADD
8	ADADBS ALLOCATE
9	ADADBS CHANGE
10	ADADBS CVOLSER
11	ADADBS DEALLOCATE
12	ADADBS DECREASE
13	ADADBS DELCP
14	ADADBS DELETE
15	ADADBS DSREUSE
16	ADADBS ENCODEF
17	ADADBS INCREASE
18	ADADBS ISNREUSE
19	ADADBS MODFCB
20	ADADBS NEWALTS
21	ADADBS NEWFIELD
22	ADADBS ONLINVERT
23	ADADBS ONLREORFASSO
24	ADADBS ONLREORFDATA
25	ADADBS ONLREORFILE
26	ADADBS OPERCOM
27	ADADBS PRIORITY
28	ADADBS RECOVER
29	ADADBS REFRESH
30	ADADBS REFRESHSTATS
31	ADADBS RELEASE
32	ADADBS RENAME
33	ADADBS RENUMBER
34	ADADBS RESETDIB
35	ADADBS TRANSACTIONS
36	ADADBS UNCOUPLE
37	ADADCK
38	ADADEF DEFINE
39	ADADEF MODIFY
40	ADADEF NEWWORK
41	ADAFRM ASSOFRM
42	ADAFRM ASSORESET
43	ADAFRM CLOGFRM
44	ADAFRM DATAFRM
45	ADAFRM DATARESET
46	ADAFRM DSIMFRM

47	ADAFRM DSIMRESET
48	ADAFRM PLOGFRM
49	ADAFRM RLOGFRM
50	ADAFRM SORTFRM
51	ADAFRM TEMPFRM
52	ADAFRM WORKFRM
53	ADAFRM WORKRESET
54	ADAICK
55	ADAINV COUPLE
56	ADAINV INVERT
57	ADALOD LOAD
58	ADALOD UPDATE
59	ADAMER
60	ADAORD REDB
61	ADAORD REF
62	ADAORD REORASSO
63	ADAORD REORDATA
64	ADAORD REORDB
65	ADAORD REORFASSO
66	ADAORD REORFDATA
67	ADAORD REORFILE
68	ADAORD RESTRUCTUREDB
69	ADAORD RESTRUCTUREF
70	ADAORD STORE
71	ADAPLP
72	ADAPRI
73	ADARAI CHKDB
74	ADARAI DISABLE
75	ADARAI LIST
76	ADARAI PREPARE
77	ADARAI RECOVER
78	ADARAI REMOVE
79	ADAREF AMIRROR
80	ADAREF DMIRROR
81	ADAREF DUPLICATE
82	ADAREF FILE
83	ADAREF NOMIRROR
84	ADAREF WMIRROR
85	ADAREP
86	ADARES BACKOUT
87	ADARES CLCOPY
88	ADARES COPY
89	ADARES PLCOPY
90	ADARES REGENERATE
91	ADARES REPAIR
92	ADARUN PROG=USER
93	ADASAV MERGE
94	ADASAV RESTONL
95	ADASAV RESTORE

96	ADASAV RESTPLOG
97	ADASAV SAVE
98	ADASCR CHANGE
99	ADASCR DELETE
100	ADASCR INSERT
101	ADASCR PFIELDS
102	ADASCR PFILES
103	ADASCR PPW
104	ADASCR PROTECT
105	ADASCR REMOVE
106	ADASCR SBYVALUE
107	ADAULD
108	ADAVAL
109	ADAZAP
110	CATALL
111	ERRLODUS
112	ERRULDUS
113	INPL
114	NATLOAD
115	NATUNLD
116	SCAN
117	SELECT
118	SEZDEL
119	SEZLIST
120	SEZLOAD
121	SEZUNLD
122	SYSMAIN
123	SYSOBJH
124	SYSTRANS

APPENDIX C - Direct commands

DIRECT COMMAND	DESCRIPTION	THRESHOLD
ADA	ADABAS maintenance menu	P
ADAACK	ADAACK Check address converter	M
ADACDC	ADACDC Changed data capture	M
ADACMP	ADACMP Compress/Decompress	P
ADACNV	ADACNV Database conversion	A
ADADBS	ADADBS Database services	P
ADADCK	ADADCK Check data storage	M
ADADEF	ADADEF Database definition	A
ADAFRM	ADAFRM Format	M
ADAICK	ADAICK Check index/AC	M
ADAINV	ADAINV Invert	E
ADALOD	ADALOD Loader	E
ADAMER	ADAMER ADAM estimation	E
ADAMTS	ADAMTS Message test send	M
ADAORD	ADAORD Reorder	M
ADAPLP	ADAPLP Protection log/WORK print	M
ADAPRI	ADAPRI Print selected blocks	M
ADARAI	ADARAI Recovery aid	M
ADAREF	ADAREF Reflective database	A
ADAREP	ADAREP Report	P
ADARES	ADARES Restart	M
ADARPL	ADARPL PLOG replication replay	M
ADARPP	ADARPP Print TLOG records	M
ADASAV	ADASAV Save/Restore	M
ADASCR	ADASCR Security	M
ADASEL	ADASEL Select protection data	M
ADAULD	ADAULD Unload	P
ADAVAL	ADAVAL Validate database	M
ADAZAP	ADAZAP Modify datasets	A
ARF	ADABAS EVENT REPLICATOR menu	M
BR	Browse parameter list	P
CD	Browse global direct command list	P
CL	Browse command list	P
CM	Command help	P
DE	Delete parameter list	P
ED	Edit generated job	P
EX	Execute the job	P
EXIT	Terminate SEZAM session	P
GN	Generate the job	P
ID	Show user identification	P
JOB	Finished Jobs maintenance menu	P
JOB GN	Finished generated JOBs	P
JOB SA	Finished saved JOBs	P
LI	List of generated jobs	P
MENU	SEZAM main menu	P

NAT	NATURAL maintenance menu	P
NCAT	NATURAL Catall command	P
NERR	NATURAL error messages maintenance	P
NINP	NATURAL INPL Utility	M
NLOD	Load NATURAL programming objects	P
NOBJ	NATURAL Object Handler	P
NSCN	NATURAL Scan command	P
NSMA	NATURAL object maintenance	P
NSYS	NATURAL system commands processing	P
NTRS	NATURAL SYSTRANS Utility	P
NULD	Unload NATURAL programming objects	P
NUSR	NATURAL user program processing	P
NUTL	NATURAL utilities processing	P
SA	Save parameter list	P
SADM	SEZAM Administration	A
SAOS	SEZAM Online ADABAS Services	P
SCMP	SEZAM Compare of Natural objects	P
SCHK	SEZAM ADABAS Checkpoint Information	P
SDEL	SEZAM Delete Utility	A
SDEL EN	SEZAM Environment Delete Utility	A
SDEL HI	SEZAM History Delete Utility	A
SDEL PA	SEZAM Parmlist Delete Utility	A
SDEL SA	SEZAM Saved Jobs Delete Utility	A
SDEL TR	SEZAM Table Delete Utility	A
SDEL US	SEZAM User Delete Utility	A
SDEV	SEZAM ADABAS Device Type Calculator	P
SEZDBID	Display active databases	P
SEZDDM	Display view control information	P
SEZFDT	Display field description table (FDT)	P
SEZFILE	Display loaded files	P
SFUN	SEZAM Special functions	P
SLIB	SEZAM Library Information	M
SLOD	SEZAM Load Utility	A
SLOD EN	SEZAM Environment Load Utility	A
SLOD HI	SEZAM History Load Utility	A
SLOD PA	SEZAM Parmlist Load Utility	A
SLOD SA	SEZAM Saved Jobs Load Utility	A
SLOD TR	SEZAM Table Load Utility	A
SLOD US	SEZAM User Load Utility	A
SLST	SEZAM List Utility	A
SLST EN	SEZAM Environment List Utility	A
SLST HI	SEZAM History List Utility	A
SLST PA	SEZAM Parmlist List Utility	A
SLST SA	SEZAM Saved Jobs List Utility	A
SLST TR	SEZAM Table List Utility	A
SLST US	SEZAM User List Utility	A
SMAN	SEZAM Maintenance	P
SMAN EN	SEZAM Environment Maintenance	A

SMAN HI	SEZAM History Maintenance	A
SMAN PA	SEZAM Parmlist Maintenance	A
SMAN SA	SEZAM Saved Job Maintenance	A
SMAN TR	SEZAM Translation Table Maintenance	A
SMAN US	SEZAM User Maintenance	A
SOPT	SEZAM Installation options	P
SRET	SEZAM Retrieval menu	A
SRET CO	SEZAM Command Retrieval	A
SRET FU	SEZAM Function Retrieval	A
SRET XR	SEZAM Cross Reference	A
SRET RE	SEZAM Resource Utilization	A
SU	Submit generated job	P
SULD	SEZAM Unload Utility	A
SULD EN	SEZAM Environment Unload Utility	A
SULD HI	SEZAM History Unload Utility	A
SULD PA	SEZAM Parmlist Unload Utility	A
SULD SA	SEZAM Saved Jobs Unload Utility	A
SULD TR	SEZAM Table Unload Utility	A
SULD US	SEZAM User Unload Utility	A
SUTL	SEZAM Utilities	A
SZAP	SEZAM Applied source corrections	A

APPENDIX D – Example of the Job Name's Rule User Exit

```
************************************************************************
* Example of jobname rule userexit
*
* NAME: UEXRUL02
* TYPE: N / SUBPROGRAM
* AUTHOR: KONSTANTIN SOUMM
* DATE: 16.01.08 - 16.01.08
*
* HISTORY:
* 16.01.08 - W312-089 created
*
* #RESPONSE CODE:
* 0 - use the jobname rule specified in the environment,
*     the #OUTPUT contains the username
* 4 - do not use the jobname rule specified in the environment,
*     the #OUTPUT contains the jobname
*
************************************************************************
DEFINE DATA
PARAMETER
01 #RESPONSE-CODE    (P002)             /* Response code:
                                        /* 0 - output contains user name
                                        /*     which is used in jobname
                                        /*     rule instead of #USERNAME
                                        /* 4 - output contains jobname;
                                        /*     jobname rule is not used
01 #ENVIRONMENT      (A010)             /* Environment name
01 #USERNAME         (A008)             /* User name
01 #PROGNAME         (A030)             /* Program name; for example:
/* ADAREP, SYSTRANS etc.
01 #OUTPUT           (A008)             /* Output
LOCAL
01 #LENGTH           (P002)             /* User variables
END-DEFINE
/* ============================================================
/*
/* Put your code here
/*
/* ============================================================
MOVE #USERNAME TO #OUTPUT
/* Exceptions
DECIDE ON FIRST #PROGNAME
  VALUE 'SELECT'
    #PROGNAME := 'ADASEL'
  VALUE 'NATUNLD'
    #PROGNAME := 'XXNULD'
  VALUE 'NATLOAD'
    #PROGNAME := 'XXNLOD'
  VALUE 'ERRULDUS'
    #PROGNAME := 'XXNERU'
  VALUE 'ERRLODUS'
    #PROGNAME := 'XXNERL'
  VALUE 'SYSMAIN'
    #PROGNAME := 'XXNSMA'
  VALUE 'SCAN'
    #PROGNAME := 'XXNSCN'
  VALUE 'CATALL'
    #PROGNAME := 'XXNCAT'
  VALUE 'ADARUN PROG=USER'
    #PROGNAME := 'XXNUSR'
  VALUE 'SEZUNLD'
    #PROGNAME := 'XXSULD'
  VALUE 'SEZLOAD'
```

```
    #PROGNAME := 'XXSLOD'
  VALUE 'SEZDEL'
    #PROGNAME := 'XXSDEL'
  VALUE 'SEZLIST'
    #PROGNAME := 'XXSLST'
  VALUE 'INPL'
    #PROGNAME := 'XXNINP'
  VALUE 'SYSTRANS'
    #PROGNAME := 'XXNTRS'
  VALUE 'SYSOBJH'
    #PROGNAME := 'XXNOBJ'
  NONE IGNORE
END-DECIDE
EXAMINE #USERNAME FOR ' ' GIVING LENGTH #LENGTH
* check username length
IF #LENGTH LE 3 THEN
  COMPRESS #USERNAME
    'M'
    SUBSTRING(#PROGNAME,3,4)
    INTO #OUTPUT
    LEAVING NO
ELSE
  MOVE #USERNAME TO #OUTPUT
END-IF
#RESPONSE-CODE := 4
ESCAPE ROUTINE
END
```

Notes

Notes